

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "Brian.Buydens@usask.ca" <buydens@duke.usask.ca>
Subject: [10109] 2m FM or all mode rig plans
Message-ID: <Pine.OSF.3.95.970127160333.19099B-100000@duke.usask.ca>

Are there any plans/kits/schematics for 2m FM rigs?

Brian.

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+-----+
| Brian Buydens, Computing Services, University of Saskatchewan |
| email: Brian.Buydens@usask.ca |
| VE5RDV |
+-----+
| It's -35 degrees Celcius out there! ... no, wait, it's -5 ... no it's -35 |
| ... hold on, it changed again, it's -5 ... oh no, it's -39 ... |
+-----+
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From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Randy Hargenrader <randyh@harksystems.com>
Subject: [10087] 3.560 MHz Xtal Source?
Message-ID: <32ECEF8A.21B1@harksystems.com>

Hey!

I'm building what could be called an "80-9er". Rcvr
is up and running. TX stage is next. Rcvr is so loud
it will run a speaker! Right now I'm using 3.579 and
3.686 xtals.

Does anyone know where I can buy a 3.560 xtal "off the
shelf"? I am aware of the xtal companies, I'm assuming
one of the kit places must have 'em laying around. Time
is of the essence since my deadline is the Spartan Sprint
in Feb. Any help?

--

73, Randy WJ4P

QRP-L #296 ARCI #9152 1996 40-9er High Scorer

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Peter Chow <pchow@cisco.com>
Subject: [10104] 38 special - 6.8uH inductor
Message-ID: <199701272136.NAA18037@mb.cisco.com>

A local shop (Anchor Electronics, San Jose CA) carries them. 3 for \$1.
They also have plenty of 78L05 for \$0.48 a piece.

A few annotation discrepancies that I found on the manual:

1. Q2 = TR101 on PCB
2. C505 = C50 on PCB
3. L5 = L101 on PCB
4. R301 = R30 on PCB

Also, N7KT mentioned that R17 is not needed for the TiCK mod. I traced the PCB and it seems to me that the TiCK output (pin 3) is feeding to the point where R17, C31 and U4 pin 3 meets. Therefore, I think R17 is needed for the TiCK mod. Any comment?

72,
AC6ZD/Peter

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Doug Hendricks <ki6ds@telis.org>
Subject: [10050] 38 Special Mods
Message-ID: <32EC4292.6874@telis.org>

Guys, part of the deal with NorCal putting out the 38 Special kits for \$25 was that you were going to send me the mods that you have come up with. I am very, very busy with packing kits + 1000 other things (like sending missing parts) and I don't get to read all of qrp-l as thoroughly as I would like. Please, Please send me a copy of mods that you post to the list. It will make things much easier for me. So far, I have only had 2 mods sent to me.

If you guys want more \$25 kits, I gotta have participation. Please send the mods to me at the following address:

ki6ds@telis.org

Thank you for your help and consideration. If you have posted a mod to the list, please send me a copy at the above address. Thanks, Doug,
KI6DS

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: faunt@netcom.com (Doug Faunt N6TQS +1-510-655-8604)

Subject: [10118] 38S and voltage regulators

Message-ID: <199701272350.PAA27666@netcom5.netcom.com>

Those people who want to run the 38S from a 9V battery are going to have a problem, I think, since the dropout voltage for your run-of-the-mill 7808 is around 2V, which means feeding the regulator with a minimum of 10V.

Replacing the 7808 with a LM2940, which has a typical dropout of 0.5 volts, would allow that operation but only with a fresh battery.

I'm planning on running mine on an internal supply of 9 AA cells, and using a 2940-8 which should allow stable operation to less than 1V per cell. I'll be using Keystone holders, which will allow use of nicad, alkaline, or lithium cells, and changing among these in the field.

Another option, although perhaps expensive, but smaller and lighter, would be to use 2 type 223 6V photo lithium batteries, perhaps in the Keystone battery holder available from Mouser as part # 534-223.

I don't know how these batteries are rated, and if anyone has this information, I'd be interested in hearing it.

73, doug

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: Paul Harden <pharden@aoc.nrao.edu>

Subject: [10049] 38S MODS: QSO Update

Message-ID: <199701270552.WAA24554@zia.aoc.nrao.edu>

Well, finally got the 38S kinda put back together, hauled it home, put it on the aerial and had 3 QSO's while the superbowl was going on. One QSO was with a QRO guy who lost patience with my "weak 449 signal." Thanks for the nice report (hey, I'll take a 449). The other two were more helpful, and provided no comments to suggest any chirping, etc.

As reported by a couple of posts, the side tone does sound a bit chirpy, or at least a rising in frequency after several seconds of CW action. On the second QSO, I monitored this on anothe receiver, and could not hear it. I *THINK* it may just be the sidetone oscillator warming up on transmit. Afterall, the two drivers for the sidetone oscillator and the ones for the PA amplifier are only a few angstroms apart on the same chip. (Well, a few millimeters anyway).

Don't piddle with the C1 cap change. Not worth the effort on the air. This was picking off a lower voltage node by moving C1 to the junction

of L3-L4. The couple of dB you loose to the receiver is two dB you don't want to loose -hi. But the additional 270pF across the 820pF does show a slight increase in output power, and it was slightly noticeable by the fella on the other end, who said it also sounded "cleaner" (whatever that means). Not a pertinent change, but obviously cleans it up a bit, as shown in the lab.

My IRF510 was showing a scant more than 3W on my power meter. I forgot to measure the total current drain, though. Is that what others are getting? Or are you really getting a full 5W?

Nice little radio, though, isn't it?

72, Paul NA5N

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: George Stratemeier <n3wxi@sgi.net>
Subject: [10064] 38S parts
Message-ID: <Pine.PCW.3.91.970127085359.10830B-1000000@n3wxi>

Hi folks,

I seem to have come up short on wire to wind the toroid for the 5W mod. Since I have never done toroids before I tried to be careful measuring the wire, but I still came up short. I am having trouble finding enameled magnet wire locally and am wondering if anyone could check out Mouser part # 501-MW26H-1LB and tell me if you think it is suitable. Or perhaps someone from Norcal could find a moment to let me know where they got the wire for the kits.

TIA

George Stratemeier (N3WXI)
Pittsburgh Pa.
QRP-L #440

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Earl Mead <emaaro@pacbell.net>
Subject: [10110] 40th Anniversary
Message-ID: <32ED2D06.63CA@pacbell.net>

Hi everyone:

You are cordially invited to surf the North Hills Radio Club, THE BEST

AMATEUR RADIO CLUB IN THE WORLD, web page at

<http://www.ns.net/~NHRC>

We are celebrating our 40th anniversary of our founding as a full service amateur radio club in 1957.

Select the "About This Page" at the bottom of the home page. There are many links to individual and club web pages, a swap ads page, a place for guest comments and many other items too numerous to list.

I sincerely believe it will be worth your efforts.

73s/72s, emaaro

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: Elliott Lawrence <edl@pacbell.net>

Subject: [10029] 49er

Message-ID: <32EC03F0.5A77@pacbell.net>

Keep missing the "49er for sale" by that much. Anyone have an unbuilt kit they are will to part with??? Let me know. Tnx.

vy 72/73

Elliott WA6TLA

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: Pete Meier WK8S <pmeier@tir.com>

Subject: [10024] 49er sold, other equip still available

Message-ID: <199701270100.UAA03219@tir.com>

> I have a 49er kit unbuilt that I don't think I'll get around to building
>so if someone would like it I would like \$25 plus shipping.

sold (sorry)

>To help alingn I also have a Radio Shack DX-390 w/bfo, LCD display and
>direct frequency entry. It is a nice unit and almost new with original box
>and manual. I never seem to use so would like \$165 plus shipping.
>

still avail

>One more item not getting enough use is a Timewave DSP 59+ with latest
>firmware upgrade. Original box and manual and in like new condition. I
>would like \$175 plus shipping.

still avail

Pete WK8S email pmeier@tir.com

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "chris" <guardianone@mvtel.net>
Subject: [10016] 49er, audio question
Message-ID: <9701270012.AA01221@host.ot.centuryinter.net>

I just got my 49er going (I'm new to QRP and was lucky to get one) and the audio is very low. I'm using an 8 ohm 0.2 watt speaker. Now I know this audio was not made for speakers but it was all I had.

1. what type of head phones does one need?

2. what is some good modifications to do?

3. where do you find info on the 80m mod. ?

I guess the badgers was asleep along with the cats and my six year old, because after my final check for shorts and such I performed the SMOKE test... I KEPT ALL THE SMOKE IN!!!!

thanks in advance

72 73 Chris KB5VYB QRP-L # 853 AK/QRP #38 AR/QRP #32

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "Lau, Zack, W1VT" <zlau@arrl.org>
Subject: [10082] AL7FS - FSFD Volume 3
Message-ID: <m0vov6o-0004ocC@mgate.arrl.org>

AL7FS wrote: KD0CA IA (My friend CIRCA 1971)

Great to hear that Jerry and Jim hooked up. Jerry gave me call about 15 minutes after I worked Jim and mentioned that you guys were college buddies :-). Thanks for 2X QRP country #21 on 20 CW in less than 1 month! Zack W1VT.

BTW, I have tickets to Hawaii for the last week of November/1st week of December--guess I ought to line something up...

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: jlarsen@alascam.att.com
Subject: [10113] AL7FS - FSFD Volume 3.1
Message-ID: <9700278544.AA854403018@mailrouter.alascam.att.com>

AL7FS - FSFD Volume 3 25-26 January 1997

Greetings from Alaska,

I am not going to get fancy with this list. These are the log entries less time
, RST, and
name. The list is in order worked starting at 1845Z with AC5AM. Thanks, Bob.

FSFD - AL7FS - 25-26 Jan 1997

25 Jan 1997

1845Z

AC5AM	LA
KE4YH	FL
ND3P	PA
K5ID	AR
KE7IT	WA
WA1QVM	MA
W1KX	ME
N0IT	MO
N4BP	FL (KL7Y says he knows you)
KK7BD	AZ
W1GU	ME
K1CL	MA
W1VT	CT
W9KI	AR
AC6KW	CA
VE3JC	VE3
W7GB	WA
WA8LCZ	MI

1945Z

WB7QQQ	OR
N4VEF	GA
NC4H	FL
AB7TT	AZ
KD0CA	IA (My friend CIRCA 1971)
NN9K	IL
N8MOJ	MI (Nice contact, Marion, welcome to QRP)
N6XU	CA
N4SO	AL
N2YKH	NY
KC7NBM	WA

N7MFB WA
W10E ME
WB2VRK NJ
N3LAZ PA
AA1IK NH
AB5OU NM
AE4IC NC
K7TP CA
KU7Y NV
2045Z
KS4SQ NC
N6MM CA
N3KFL PA
K6JI CA
KF4GFR VA
VE3REP VE3
K0EVZ MN (THAT S #1)
N1QQV CT
KI7MN AZ
W0RW CO
AB7ST UT
N7KT AZ
KF6DCU CA
VE5RC VE5
K4NK SC
KS4L AL
2145Z
K4WZ GA
KF6CTA CA
VE7BGS VE7
NE6S CA
KB0TCY NO
W7MXQ OR
K0EVZ MN (THE 2 W QSO)
VE7IC VE7
2245Z
WA6RND CA
W9DZ IN
NC9F/Mobile IA
N3TM PA
W4MA GA
KM6TU CA
2345Z
W7CNL ID
KC7FWZ AZ
W5FN TX (LAST QSO ON 20 MTR, TIM)
END 0000Z
** 30 METERS**

0015Z
 N2YQ NV
 K0EVZ MN (THAT S #2)
 KJ7JH 439 CALLED NO ANSWER
 W6JDB 229 CALLED NO ANSWER
 K5FO 229 CALLED NO ANSWER
 END 0130Z
 ** 40 METERS**
 0145Z
 AB5OU NM
 W5FN TX
 AC6KD CA
 N7KT AZ
 WA6PBY CA
 KI7MN AZ
 W6JK CA
 K4WZ GA
 W0RW CO
 N0TFI CO
 KL7FH AK
 W4ED GA
 K7YGB OR
 WB5QYT NM
 N6MM CA
 K4NK SC
 0245Z
 VE5RC VE5
 K5FO TX (50 STATES AT .95 W)
 K7RXV WA
 N6XU CA
 KD6YIX CA
 KU7Y NV
 K0EVZ MN (THAT S #3)
 S51AG/MM MM Bering Sea
 0345Z
 W7KTE OR
 KL7HF AK (Yes, I worked KL7FH and HF)
 END 0430Z

 73,
 Jim
 AL7FS

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
 From: Jim and Nancy Larsen <larsennc@alaska.net>

Subject: [10019] AL7FS - FSFD Volume 4 - Memory Download
Message-ID: <32EBF557.7C6E@alaska.net>

Greetings from Alaska,

I do want to thank each of you for taking the time to be there to work me from Alaska. If you had not made the effort, I would have been shouting in the darkness. I wish the other 18 states could have been there as I suspect I would have heard them, too.

It is truly a sight to see those beams up on the top of 125 foot towers. The five elements on 20 and the three elements on 40. I actually used the 160 mtr inverted V at 150 feet for 30 meters. I did try 15 meters but it was not open from up here. Again, in summary, the reasons you heard me:

15 meters = 5 elements over 5 elements (Hygain 155 Long Johns) at 125 and 72 feet.

20 meters = Hygain 205 (5 elements) at 125 feet

30 meters = Dipole at 100 feet (unfortunately it is E-W so pattern is North-South)

40 meters = 3 elements at 125 feet

80 meters = slopers

160 meters = Inverted V at 150 feet.

My thanks go to Dan, KL7Y, a recognized contester and DXer, for the use of his shack. Dan has set many records with his station. He "warns" me that when 15 opens, I will be fighting off pileups from Europe just to work stateside. Well....maybe not if QRP, but he says he sometimes reduces power to about 20 watts, just to get the pileup down to a manageable size.

I was able to use an N2DAN paddle. Wow! Maybe someday I will qualify for FOC and can get one. You can't just order them, or so I am told. One ham up here has one and he has agreed (get this), to will (put the paddle in his will) his N2DAN paddle to KL7Y. True story. I hear they cost up to \$400 US.

I was happy with the pace of the FSFD. I was a tiny bit worried about it at first but found the approx. 20 QSOs per hour to be just fine. I concentrated on one QSO at a time and went for solid 2xQSOs before I moved on. I hope no one minded that I did not chat. That was by choice and design.

Feedback:

to me: Since you all knew the format, more or less, did my format work for you?

callsign, ur rst 559 559 AK AK Jim BK

BK RRR TU name 73 de AL7FS K

to you: It was fine to say BK ur rst 559 559 QTH XX XX NAME nnnn nnnn,
or
it was fine for me to receive: BK ur rst 559 559 XX XX name name BK

However, please use only two letter Post Office state abbrev. I was
real confused a few times. (I may have passed my EXTRA class license
but I am not that good.) Also, please no city names.

I tried to slow down when you sent to me slower. If I did not and you
wish I had, I apologize. I had to ask a few ragged (really ragged)
fists to QRS. I am not good at 45 wpm characters spaced at 15 wpm.
Everyone adapted and all readable QSOs started were finished.

After thought: Today, at home, with a KLM KT-34A at 42 feet, 20 meters
was barely open. I would bet you, from KL7Y it would be just like
yesterday. Sigh.

That's about it. I do not promise that Volume 4 is the last, but it may
be. You all were great and not a soul criticized me for having to move
frequency to get out from under the digital sigs. I do wish the digest
folks could have had more warning but....well, that's just the way it
is.

Best of luck to all on the rest of FSFD and I do hope to talk Dan, KL7Y,
into letting me operate again from his station. He does many contests,
so I have to work around his schedule. Probably best not to be on
during a contest anyway, with all the QRM.

Best wishes from Alaska,

Jim
AL7FS

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "Thomas J. Whalen" <whalen@swcp.com>
Subject: [10096] Antenna Coil
Message-ID: <Pine.SUN.3.91.970127131919.21001A-100000@kitsune.swcp.com>

I'm sure there is a little interest in how to wind a coil for your mobile
or even base station setup. I use pvc tubing for my coil form and seems
to work fine. For example, my 160meter coil is wound on 4" pvc and
about 9 inches long. It is wound with equal lengths of # 14 TW wire and
100# test monofilament line. The mono is use to space the turns of the
wire and it isnt even noticeable. Also the dia . of the mono is about the
same dia . as the wire so makes a nice coil. I figure my 160m coil has

about 265uh of inductance. It has about 88 turns and is 9 inches long, 4.25" dia .Should have a high Q as compared to what you can buy. I am working on a way to make this coil tunable like the screw driver antenna and so you could tune 160-15 right from the drivers seat. More on this later.For mobile I built a base section out of 3/4 inch copper tubing with the associated 3/8 x24 thread adapters and is about 4'long.(cost 5.00). For the top section I use an old CB whip which can be bought at R.S. for 10.00. Right above the coil I have a capacity hat made of 4-1' pieces of 3/32 in welding rods. I even went as far as to solder BB's to the end of the rods cuz I don't like to see sparks as I'm talking going down the road! People think it weird too! Good luck and see you on TOP BAND mobile! Tom WB5QYT qrp-1 #640

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: W0rw@kktv.com
Subject: [10046] Ascension Island DX
Message-ID: <199701270500.AAA43704@nss2.CC.Lehigh.EDU>

"DEZ" G0DEZ is on Ascension Island with call sign ZD8DEZ, He is a GQRP #6322 and is going to be working 7040 "later". don't know what that means. i just worked him on 7004 at 270448Z and asked him to QSY to 7040.

He said he would be on "later", keep listening for him. He was really trying to work Alaska... 72 de W0rw

Paul Signorelli 719-6322829 V
W0rw@kktv.com
P.O. BOX 6069
Colorado Springs
CO 80934-6069

to: INT:qrp-1@lehigh.edu
cc: kg5n

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: jdenison@aisp.net (JOEL DENISON)
Subject: [10072] ATTN UTAH & VERMONT
Message-ID: <19970127160741557.AAA170@slip1.ts-f-merrill.caps.maine.edu>

for whatever reason, I need utah and vt. to complete W A S from maine. Don't need a qsl card just a contact.

i DID THIS using my former qro rig (icom 735) and my new qrp+ so it is a mixture of qrp and qro.

I DID my hamming in Louisiana from '62 to '90 and never did any good

on 40 CW QRP. Here in Maine I am haaving a ball on 40m. I even got so excited I cut my power by 1/5 (from 5 to 4w) and think I will try W A S on forty.

So if you can help me with utah, vermont, pse e-mail me @ the above e-mail address and give me a date, time, freq and I will respond and meet you at the designated spot, time .

I am free alll dayyy so make it easy on yourself and thanks very much.

God Bless
Joel

WA5CVM

Joel Denison

81 High street

Farmington, Maine 04938

jdenison@aisp.net

40 mtr dipole up 40ft

QRP ARCI 4066 NEW ENGLAND QRP 476 QRP-L 765

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: mdwatt@usit.net (Marty Watt)

Subject: [10052] Diving back in ...

Message-ID: <32f04adb.86221225@pop.usit.net>

Dear hopefully soon-to-be fellow QRP'ers:

I have been away from the hobby altogether, and QRP in particular, for quite a while. Never was real active to begin with. Unemployment, no antenna, etc. Finally sold the HF rig last summer to help pay the bills. (Ran a TS-430s QRO for a while ...)

That's the short version. I'm still unemployed, and finances are still a bit of a problem, but I'd like to try to get back into the hobby, QRP in particular. Rig acquisition is a primary goal.

I'd appreciate some feedback on appropriate courses of action that might achieve rig acquisition under the following guidelines. Specific recommendations are welcome, particularly via private e-mail (so as to conserve bandwidth a bit).

1. Budget

Right now, I can't afford much more than \$50-75 for a rig. I have a small (full-power) tuner, and don't know if my budget would need to account for a QRP tuner or not (losses being what they are). Later, after employment and moving out of my in-laws' house, we'll probably be in an apartment, but could afford a more general purpose rig like a

TS-50 or IC-706 or other small, new HF rig.

2. Construction skills

I'm up to building a kit (even though from the sound of it very few are/will be available in the near future). But my construction experience is quite limited. I built a CMOS SuperKeyer II from kit. That's it. It was pretty easy, but I haven't the foggiest how to wind toroids, etc., and would need pretty detailed instructions.

3. Coverage

Single band is fine, probably 40m, but would like to cover the entire CW section. Receiver needs to be "other than direct conversion" (the image frequency really throws me way off! VFO tuning is a must. Need novice coverage to attempt to rebuild my code speed. I don't want to embarrass myself with you guys with my 15 wpm and Extra class ticket. Yet, I want to be available to move to calling freq. where necessary. Multiband operation would be ideal, with gen. coverage receiver (I have a DX-440 Radio Shack Gen. Coverage around somewhere in our storage room, with the rest of my life!), but again, see #1 above re: budget.

4. Portability

Since I live with my in-laws now, and probably will be 2 years or more before a house is even a consideration, portability is critical. I've run some HF mobile before, and the idea of hooking up wires in the car doesn't scare me a bit, or running off of batteries. I'm actually looking to not be tied to the dwelling when operating (consequently, I'll be scarce even when operating!).

I'm looking for advice and specific recommendations. I feel sure the following four categories would be adequate, although if someone has a particular favorite model in a category, I'd love to hear about it.

Category 1: Full power HF rig, general coverage, around \$600-1000

Category 2: Commercial QRP rig (TenTec?), around \$500-750

Category 3: Commercial QRP basic rig (MFJ/HW-8 or 9), around \$200

Category 4: QRP Kit, anywhere from \$25-200

On a completely different topic, all of our "stuff", including my QRP ARCI certificate, is in storage. Can anyone on-line look up my QRP ARCI number? I think it's in the 7500 series, but not sure. If I can get it straight without a letter or phone call, I thought I'd try that first. If this fails, I'll contact KG5F and see what can be done. My actual membership lapsed some time ago, concurrent with the unemployment and several address changes.

=46inally, I'd like to thank each of you for your devotion to the hobby. In reading the rec.radio.amateur.* newsgroups, I got discouraged again. Remembered the QRP list, and subscribed. Each of you, your attitudes, helpfulness, devotion, and excitement, helped in my recall of why I became a ham in the first place, and why I miss it. You can, and should, each be proud of yourselves, as wonderful ambassadors (not to mention mirth-makers) for Amateur Radio as a whole, and QRP in particular.

72 es 73 de KN4BH
Marty (Martin D.) Watt
currently rig-less
Jackson, Tennessee (a state which didn't work AL7FS on any band or any mode ...)

QRP ARCI 75?? -- ARRL VE

P.S. I probably should publically thank N4ROA, my old QRP mentor in SW Virginia/NE Tennessee for getting me involved in CW and QRP to begin with, 6 years ago. Perhaps some of you know Dan? If you hear him on the air, please pass my regards. He's a wonderful elmer!

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: zearwd@rockdal.aud.alcatel.com (W. Dennis Zeares)
Subject: [10083] enough of the DX-70; how your comments on TenTec 556
Message-ID: <9701271747.AA06620@aud.alcatel.com>

That's enough on the DX-70...
I would like to hear from owners/operators of the
Ten Tec 556
tnx, 72/73 Dennis K3ETS Dallas, home of K5F0

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "William R. Colbert" <v31xe@dzn.com>
Subject: [10038] Finally
Message-ID: <32EC4601.5FB3@dzn.com>

Hello Paul and other knightlites - I finally made it into the group, but much SSB qrm here and lots of qrn from thunderstorms somewhere. I think I would have had perfect copy if it had not been for the SSB

which was not Mexican for a change but an Army Mars station about 2 miles away mixing with a local Broadcast transmitter next door. Anyway I will try to check into the net again next week, conditions permitting. 72/73 and again it was nice to hear you fellows on the eastern plains.

--

Ray Colbert, W5XE, SOWP 1064M, FISTS 2146
(also af852@rgfn.epcc.edu)
El Paso, Texas

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Brian Kassel <bkassel@dancris.com>
Subject: [10111] FREE! Prop reports to HR
Message-ID: <199701272239.PAA20912@dancris.com>

Hello gang,

KU5S (The author of Wizard <http://www.wtrt.net/~ku5s>) has offered to run custom propagation predictions from HR8 to any location. All you need to do is send him a message (ku5s@wtrt.net) and tell him your county and your call. He will e-mail you FREE Quality and Probability reports based on your location. These reports will give you a good idea if you will be able to work Kris at the times he will be on. See sample reports below.

I have no financial links to Capman or Wizard. Jim, the author of this commercial software is a long time friend. He is of course interested in selling his software, which has been reviewed in QST and other publications. I don't wish to offend anyone's sensibilities here, just thought that fellow QRP types would get a kick out of playing around with their 38's and a quite reliable Prop. Prediction Program.

-73 W5VB0

On January 20 Kris wrote:

> 30 METER DXPEDITION TO BAY ISLANDS HR8\KA20IG
> About 16.8 N & 86.5 W
>
> Too much frustration trying transequatorial from Lima;
> moving North to catch up on 30 Meters!
>

	1400	"	7.030-050
Ernie will call for 20	1500	"	14.030-050
minutes and stanby unless busy.	1600	"	14.030-050
	1800	If >	" 21.030-070
Look in upper end of oper.	1900	Band >	" 21.030-050
windows and work down.	2000	Is >	" 21.330-370
	2100	Open>	" 21.330-370
Email adr: gregoire@endor.com	2300-2400	"	7.030-050
	0000	THUR-UTC	3.530-050
	0100	THUR-UTC	3.530-050

AA1MI, Paul	1800-2100	UTC	14.062
	2100-2230	UTC	10.116
	0200-0600	THUR-UTC	7.038

IMPORTANT: Paul will check 3.556 for a few minutes/calls at the top of each hour beginning at 0300. He might get tied up on 80M for a while so check BOTH bands.

Jan. 30 Thursday	NEW JERSEY	N2CQ, Ken	1400-1500	UTC	7.040
			1500-1600	UTC	10.116
			1600-1700	UTC	14.060

Ken will call for the 1st 20 minutes of each hour then stby. if not busy.

N2TNN, Dean	1700-2000	UTC	21.060
		and/or	10.110
	2000-2200	UTC	14.055

Jan. 31 Friday New MEXICO WA5WHN, Jay Need schedule

Most every sign-up came with a note saying they would go longer if busy. Frequencies are +/- QRM & typ. may reach as far as 3-4 KHz from posted freq.

CALLING CQ: A suggestion. If we call CQ WAS or WAS QRP de K6.... etc, we give those not on QRP-L an indication of what we're doing. FSFD type calling might be too cryptic for all but ourselves. However 'FS' is fine when busy. Exchange RST, State/Province/Country, and Name. Power level is nice to know.

If you want to sign-up for an upcoming State, e-mail band/freq/time directly to:
congress@magpage.com

Thanks for all the responses/encouragement and suggestions. Lets have a blast!

Jim K3QIO Wilmington, Delaware

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: wa5whn@juno.com (Jay D Miller)
Subject: [10063] FSFD schedule for NM/ 1, Feb., 1997 (UTC) de WA5WHN/QRP
Message-ID: <19970127.065610.2079.1.wa5whn@juno.com>

QRP-Lers,

4,500,000.00 microwatts beaming world wide & Tejas ("Texas-it's a whole
'nother country") too. ;-)

FSFD (QRP WAS) Sked.

1700 - 1900 UTC (Feb. 1, 1997)

14.054 MHz, plus or minus QRM

2000 - 2100 UTC (Feb. 1, 1997)

10.116 MHz , plus or minus QRM

2300 - 2400 UTC (Feb. 1, 1997)

7.038 MHz , plus or minus QRM

If there are any changes, I will let You all know.

72...Jay, WA5WHN, Grid Square: DM65qd

PS With AB50U, WB5QYT, NA5N, K5ON on from NM, there should be very few
stations who need NM for QRP WAS, right ? ;-). Occasionally, the lovely
& most talented WB5LYJ may slip in a few QRP QSOs too. (WB5LYJ/WA5WHN)

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Philip Karras <ke3fl@access.digex.net>
Subject: [10102] ftp sites for ham software?
Message-ID: <Pine.SUN.3.94.970127161827.27148B-1000000@access5.digex.net>

Does anyone know of any sites listing down_load_able ham software?
I tried [oak.oakland.edu/pub/hamradio/arrl/bbs/programs/] but I can't
even get in using anonymous user. Do I have something wrong here?
Thanks!

72 & 73 de KE3FL/Phil
:-)

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: ed.welch@cheaha.com (ED WELCH)
Subject: [10080] game???
Message-ID: <8D0E1EE.00040001A3.uuout@cheaha.com>

-> 40M. Test driving the TenTec. Noticed how quiet 40M
-> was during the Super-Bowl. Didn't watch a lick of the
-> game. :-) The crowd came back with a vengeance I guess
-> after the game with the DX pileup at 7.007 or so.

No, no, no, pleeeeeezzzzzzzzz. I just got through with the WM-2 meter,
now I'm starting on the NC38S with a 49er sitting in the wings still
awaiting the iron, and a OHR-400 sitting waiting for the same heat.
Now, you go dangling this apparent beauty in front of me! ARGGHHH!!!!
<hmmmm, now where'd that Ten-Tec phone number go?..<g>>

Game??? What game???

72/73
Ed Welch KF4KRV
QRP-L #873
Luverne, Alabama
Crenshaw County - Grid EM61

+-----+
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----
+-----+

> Isn't "time" a 4-letter word? <

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: mvjif@mvubr.mv.lucent.com (James M Fitton +1 508 960 2577)
Subject: [10092] Hamstick/Pro-Am mobile ant

Message-ID: <199701271928.0AA12581@alig1.firewall.lucent.com>

Using an Autek-RF1 Antenna Analyzer to resonate a mobile,

Pro-Am 20m antenna, magnet mounted on the car roof,

I wonder how to:

1. Determine resonance (by adjusting the stinger)
2. Match the coax to the rig (tune out the coax line reactance)

The Lowest Impedance, and lowest SWR do not seem to occur at the same frequency.

The base of the antenna is not (obviously) accessible with a single mag mount.

I'm used to doing it the old fashioned way with a noise bridge, grid dip meter, SWR meter and tuner. A time consuming project, with many pieces of gear, but it does work well !

Any tips using the RF-1 would be graciously accepted.

72/73 Jim Fitton, W1FMR NE-QRP <>< NH

jfitton@lucent.mv.com

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: kb0rol@juno.com (Bradley L Mugleston)

Subject: [10030] Hawaii - FOX or SWL

Message-ID: <19970126.184801.7591.0.kb0rol@juno.com>

Aloha, I have returned to the mainland and my home. For those of you who listened for me, THANK YOU. I tried I really did - I spent two hours sending CQ but all I got (for the most part) was static crashes. I'll give you what I think I was able to copy.

At 0224Z - I heard the call K 5 R W or something like that

At 0255Z - I was able to copy KC5MI.

At 0322Z - I heard my CALL, once - got all excited but never got anything back

At 0349Z - I heard KB0??? don't know if it was for me or not.

Well that's what I heard, Did any of you hear me?

Mahalo

Brad Mugleston - KB0ROL

Colorado QRP Club # 170, QRP-L #316, ARRL

QTH - Aurora, CO - DM79oq

KB0ROL@JUNO.COM

BMUG@GWL.COM

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: tahrens1@juno.com (Tim H. Ahrens)

Subject: [10094] Help with a 'T' Matching Network

Message-ID: <19970127.134556.12327.0.tahrens1@juno.com>

Hi Everybody - I need a little help with a 'T' matching network. In my quest for the perfect vertical array, I have come up with two possible answers, and I'd like to narrow it down before finishing the array and article.

Let's make it a test... here is the question:

Input & output impedance is the same - $76.02 + j0$

Input voltage & angle: 54.59v, 29.22 deg

output voltage & angle: 54.49v, 65.70 deg

What Capacitor values (2), and inductor value (1) are correct at 3.8 mHz?

Here's the deal: A magazine article that I have has one value, and the software (early version) from ON4UN says something different for the L value. The Capacitor values are the same (1671pF).

See, I already gave away half the answer!!hehe

So, if anybody knows anyone who has the 'new' version of ON4UNs software, and can run these through it, please let me know.

I'm working on an article, probably for QRPP, on
"A Triangular Vertical Array for the mathematically
challenged"!! I almost called it ... for dummies,
but that wouldn't be particularly politically
correct... how'z about ... for Badgers?!!

This is the last piece of information
that I need to complete the text. The antenna is up
and really works great.

Thanks a bunch for the BW.

Tim W5FN

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: ed.welch@cheaha.com (ED WELCH)
Subject: [10025] HW-8 troubleshoot advise needed
Message-ID: <8D0D47F.0004000167.uuout@cheaha.com>

-> Greetings! I'm trying to coax a HW-8 back to life. At first,
-> nothing buy the audio amp worked...then the transmit section was an
-> easy fix.

-> crystals? Pointers? Anyone have any other spots they might
-> recommend checking?

Have you checked the tubes????
<couldn't resist...running,dodging, ducking, diving under the bed><g>

72/73

Ed Welch KF4KRV

QRP-L #873

Luverne, Alabama

Crenshaw County - Grid EM61

-----+-----+
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----
-----+-----+-----+

> Isn't "time" a 4-letter word? <

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: wmcshan@REX.RE.uokhsc.edu (Mike McShan)
Subject: [10077] HW8
Message-ID: <v01540b01af0fecb45eae@[157.142.56.167]>

OK, more problems with a HW 8. My ricenboxen decided to stop transmitting last week, so out of retirement comes my HW8 (my sentimental favorite, anyway). 80M, 40M, and 15M work great, however 20 M is way off frequency (down around 12 MHz). The VFO works from 8.645 to 8.895 MHz and mixes with crystal controlled heterodyne oscillations to give the right frequencies. I pulled the crystal out and cajoled the kind folks at International Crystal to test it for me - by their standards, it needed replacing because it 54 ppm low! However, it still oscillates with an output of 65 microwatts. I still wasn't sure if the crystal was the problem, so I first went back to my rig and checked all of the diodes associated with the 20 M circuit. Found one cold solder joint and fixed that - but all of the diodes checked OK with my digital multimeter. Rig still transmits on the wrong frequency.

Any thoughts? Should I get a new crystal? (Maybe the old one doesn't have enuf output anymore?) Toroid problems? Any other ideas? Shoot the badgers?

Thanks for any help...

Mike N5JKY
Edmond, OK

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "Peter L. Demmer" <ampruss@hits.net>
Subject: [10115] IFXFMERS
Message-ID: <32ED3E5F.54A@hits.net>

Sorry for the waisted BW. resub msg 72 es Aloha Peter KH6CTQPeter L. Demmer wrote:

>
> Thanks for your heads up 1S4/1S5 sepearate cathodeless pentodes. I
> hooked up with the glow bugs pouch and had a ball. Lots of this old
> fun regen stuff out of the G folks in the UK et.el...
> However, now that I got the links and the resmarts, I need some specific
> help. Im looking to buy an IF xfmer with can. I have a choice of 2
> types/part numbers;
> Millen P/N 62161 (1700 Kc) and /or a Miller P/N 612-W4 (1500Kc).
>
> I just returned from a hiking vacation trip over to the big island

> (Hawaii) at the Valcano National Park. What a place for field day!
> And Im playing catch up. Even though Im somewhat trapped in the vacuum
> of thoriated tungsten time, Hope you can help or point me in the right
> direction.
> Thanks again Michael and 72 / Aloha
> Peter KH6CTQ

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: jdenison@aisp.net (JOEL DENISON)
Subject: [10093] jan 19, fdfs
Message-ID: <19970127194101011.AAA159@slip32.ts-f-merrill.caps.maine.edu>

Greetings etc from wa5cvm

I have just completed filling out qsl cards for all the fdfs on jan 19 97
Some have sent qsl cards already and I sent mine back :-)
I will mail the rest of the cards Tomorrow (less the ve stations, don't have
add for ve sri).

I figured this was the "least" I could do, so I did it... :-)
qsl cards are on the way. Snail Mail to the rescue :=)

God Bless
Joel

WA5CVM
Joel Denison
81 High street 40 mtr dipole up 40ft
Farmington, Maine 04938 QRP ARCI 4066 NEW ENGLAND QRP 476 QRP-L 765
jdenison@aisp.net

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Bill Todd <bill@techline.com>
Subject: [10057] JUNO 800# Temp. FIX
Message-ID: <1.5.4.32.19970127082717.0067ea14@mail.techline.com>

Hello Group(s),

Someone sent a note to me about a month ago about how JUNO had changed my
"software" so that I could no longer get my mail at JUNO, rather than
to have actually disconnect their 800 number altogether. Well, I discovered
that this is true.

I found a way that you can still check your mail on JUNO (just to see WHO has not gotten your NEW E-Mail address...-:).

Some of what I did to make JUNO work may not have been necessary, but this is what I did in any case:

Erase Everything you have in your JUNO subdirectory, including ALL the subdirectories under JUNO...EXCEPT your user information under the ADS subdirectory. You will see listings with 00000000 or 00000001 or 00000002 (whatever). These files include your E-Mail address(s)...so you don't want to erase them. You might also want to erase the JUNO.INI file under your Windows subdirectory, but this may not be required to make JUNO get your mail.

Then, reinstall JUNO from your disk. You will have to reconfigure your modem, so it will take awhile to load up everything. After you have done all this, you will then be able to call the 800 phone number and get your mail.

The first few messages you receive will tell you that JUNO's 800 phone number will not work (we already know this), so you can erase the first two messages without reading them.

Now, you will have to go through this entire process again if you want to check your mail again.

Anyway, I hope this helps all the folks like me who depended on the 800 phone number service that JUNO offered.

CUL, Bill-N7MFB

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Mike Duke <gmduke@oscar.teclink.net>
Subject: [10020] Mailbox full?
Message-ID: <Pine.GS0.3.95.970126183457.14300B-100000@oscar.teclink.net>

Is anyone else getting "mailbox full" messages from their provider when attempting to post to this list? I have gotten two within the past week.

73, de K5XU

Mike Duke,

Jackson, MS

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: timcook@erinet.com
Subject: [10075] manuals
Message-ID: <32ECD53A.5E71@erinet.com>

Thought someone here on the list may be interested in these. Don't email me, I just copied the info from rec.radio.swap
Tim
NZ8J

FOLLOWING IS FROM REC.RADIO.SWAP:

have for sale the following Heath manuals:

HW-8- Full assembly/operational manual in VGC with usual construction marks. \$20.00

DX-40- Excellent manual copy (no schematics) spiral bound with F&B covers. \$15.00

IM-2420 512 mhz. Frequency Counter. Actually two manuals, complete with schematics and usual construction notes. \$15.00

Above pricing includes shipping CONUS.

If interested, please e-mail direct to <rut@mcrut.mv.com> or call (603) 673-7204.

===Phil=== (K1HS)

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Buck Switzer <n8cqa@tir.com>
Subject: [10070] MI-QRP Club T5W Quarterly
Message-ID: <199701271531.KAA19554@tir.com>

Gang - T5Ws are all in the mail (first class) so you should be getting them within a few days. Hopefully the 03/97 issue will be mailed by 03/01/97. Thanks for your patience.

72/73 Buck N8CQA
MI-QRP Membership Chair

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: ed.welch@cheaha.com (ED WELCH)
Subject: [10106] More info on trimming 40m to 30m dipole...
Message-ID: <8D0E3B7.00040001DD.uuout@cheaha.com>

-> Ok, I had a few minutes to tinker this afternoon and I decided to get
-> an antenna fixed up for the NC38S. I had a 40m dipole up that I
-> really

-> The range of SWR reading are from 10.00mhz - 10.30mhz. These range
-> from 1.60 to 1.70. Resistance is high averaging about 85 ohms. The
-> resistance, I guess, is what's throwing me. If I tune the 259 on
-> either side of these freqs I can see that this is the most resonant
-> length, but the SWR/resistance readings don't seem right to me. If I
-> ended up trimming the dipole legs uneven (12awg house wire) would
-> this account for the high resistance?

Another note is that the lowest (50 ohm) resistance is found at about
12.50mhz, though the SWR skyrockets of the meter. Thought I'd throw
this out there in case it matters. Tnx!

72/73
Ed Welch KF4KRV
QRP-L #873
Luverne, Alabama
Crenshaw County - Grid EM61

+-----+
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----
+-----+

> Isn't "time" a 4-letter word? <

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: jerryh@webzone.net (Jerry Henshaw)
Subject: [10039] NC38S Still Chirpy At Stock Power????
Message-ID: <01BC0BD7.105F81A0@pm1.ppp12.webzone.net>

Hi Gang,

I really have the Midas touch when it comes to building radios...

everything I touch turns to rusty mufflers. =20

I removed the 5 Watt mod in my NC38S.... still get a bad chirp with only 300mw!!!

I think I am on to a potential source of the problem.... if you turn = the RIT on during transmitt it will pull the transmitt frequency about=20 1.5khz. I noticed there is about 50mv voltage difference between=20 the anodes of D301 and D302. The 50mv is enough pull the vx0 1.5khz.

I suspected the RIT circuit might be a source of chirp. Sooo.. I bypassed the RITcircuit with a clip lead from the main tuning pot=20 (low side) to ground --- no more chirp!!!! I am considering adding two = more transistors to switch D301 and D302 in an out of circuit with the = -R and -T signals. I suspect the CMOS inverter used to generate -R from the -T signal might not drive -R close enough to ground. I'm getting tired right now. I'll continue the quest=20 tomorrow and post any positive results.

Has anyone else notice this???

73's

Jerry Henshaw
KR5L / QRP
jerryh@webzone.net

ARCI 9165, QRP-L 847, NORCAL 1999
49er, ARK 20, Wilderness Sierra, (Soon 38 Special)

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
Subject: [10085] NC38S: CMOS gate termination?
Message-ID: <1997Jan27.131213-0500@[130.113.234.7]>

Good engineering practice requires that CMOS gate inputs be held either high or low, and NOT left to float. This is because the NMOS and PMOS transistors can both be turned ON when their (common) gates float thru 1/2 Vcc region. This can cause excess current to flow from Vcc, thru the NMOS and PMOS transistors, to ground. With Vcc at a rather high (8 volts) as in the 38s, I'd say that

staying away from the 1/2 Vcc region is extra important.

So if you leave out the two-gate sidetone oscillator components, because you're using the TiCK sidetone, I'd suggest that you tie U4d input somewhere, rather than let it float. Another way to do this is to put in a resistor (0 to 10MEG) in place of D8.
(This mod connects U4d input to R-.)

There's another gate, with a floating input. That's U4a, the TX buffer gate. It is capacitively coupled to the collector of the driver transistor. So it could enter the dangerous 1/2 Vcc area too, especially during receive when there's no AC input signal. Isn't the stock circuit playing with fire here, possibly causing excess RX current drain?
Glen VE3DNL

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "chris" <guardianone@mvtel.net>
Subject: [10112] need help
Message-ID: <9701272306.AA16266@host.ot.centuryinter.net>

Is there a web page with info on a computer interface such as the MFJ-1213 ? I built one but it did not work.

A tech from MFJ said he built one , however he said it kept popping the 741 opamp but did not suggest a replacement. ANY suggestions would be appreciated.

72 73 Chris KB5VYB QRP-L # 853 AK/QRP #38 AR/QRP #32 Man I need to get a life.

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: zearwd@rockdal.aud.alcatel.com (W. Dennis Zeares)
Subject: [10069] Need info on Alinco DX-70 w/6 m.
Message-ID: <9701271518.AA25556@aud.alcatel.com>

I would like to hear from owners/operators of the Alinco DX-70... tell me how it works... tell what you like and don't like.

how is that CW filer and how is the QSK.

Please email me direct to: zearwd@aud.alcate.com

TNX, 72/73 Dennis K3ETS, Dallas, Tx. Home of K5FO

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: n2qce@juno.com (John M. Evans)
Subject: [10065] New address for N2QCE
Message-ID: <19970127.090233.8087.0.n2qce@juno.com>

Hi all,

my new address is n2qce@juno.com

Home page is still at <http://www.islandlink.com/n2qce>

Tnx es 73. de John N2QCE

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "Dean Marzocca" <n2tnn@ifu.net>
Subject: [10044] Parts help
Message-ID: <199701270451.XAA13019@mail.ifu.net>

Does anyone know what transistor part number N24441 and IC MC830P are used for? I can't locate the description for either.

Thanks 72/73, Dean, NJ, N2TNN, QRP-L # 560

ps I was going to send a picture of each to make the identification a bit easier but thought a verbal description might be a better choice..... :-)))

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>
Subject: [10098] Portable vertical antennas
Message-ID: <854398359.912809.0@gqrpclub.demon.co.uk>

I hope some of you have seen the 'How to make mobile/portable whips' page on my web site, as it is easy to make up a vertical for those field trips and for mobile use. The method I describe for tuning them is also useful to practise. Try making a whip for say 20m, attach a suitable mount, such as

an S0239 socket on a large croc clip. Measure a 1/4 wave (17 ft for 20m) and clip that to the whip in situ. Tune whip with FS meter for maximum and off you go. Mobile whips similar, but I spent time on mine getting it in the band, so that it was a case of putting it on a mag mount and operating, all pretuned and on the band in ten seconds flat. Does it work? Yes! more than 1,000 miles on SSB proves it does, with 10w PEP.

Have fun.

---72/3---Frank G3YCC G QRP 042

QTHR (Kirk Ella, East Yorkshire)

QRP Web sites: <http://www.gqrpclub.demon.co.uk>

<http://www.geocities.com/CapeCanaveral/5179>

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: Stan Skelton <sskelton@cln.etc.bc.ca>

Subject: [10078] QRP-L- Help needed on screwdriver antenna const.

Message-ID: <Pine.SUN.3.95.970127084111.4405B-100000@cln>

Hi all.....I'm forced to lurk on the digest due to excessive bandwidth so don't expect a prompt reply back from me, but has anyone built the BIG DK3 HG MOBILE ANTENNA (sometimes known as the screwdriver antenna)....It looks like it would be really handy to take on summer camping trip mounted on the (magic) 72 VW van for QRP work. I have had some trouble finding out how to wind the coil (given the skill level needed to operate a metal lathe to cut the grooves). Is there any alternative to using a metal lathe.

Stan VE7SKT, qrp-l #34

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: "Laura" <sputnik@imt.net>

Subject: [10067] QSL Address MT

Message-ID: <199701271459.HAA09157@cu.imt.net>

For FSFD Contacts:

QSL to Laura Lubner - KJ7UN
16103 Rocky Mountain Road
Belgrade, MT 59714

Thank you! I will QSL to everyone!!

73 de KJ7UN, Laura

Laura Marino Lubner - Reese Creek Montana USA
sputnik@imt.net <http://www.imt.net/~sputnik>
GHRC / ARRL / NORCAL / 10-10 # 68896
FISTS # 2785 / MARC / QRP-L # 790

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Bruce Rattray <rattray@siast.sk.ca>
Subject: [10105] question
Message-ID: <0621501527011997/A12965/RIEL/11B1DBF21400*@MHS>

I'm don't know the proper forum for this question so I'll take a chance here...I have a rig that runs a 5 watts position so maybe that makes it a qrp question...I'm looking for someone else who has a Kenwood transceiver model TR-7730...apparently for it to retain any information, it needs something called a BC-1 accessory...I would like to know what the BC-1 is?...is it just a DC supply?...I run the rig mobile and from what I can gather so far the BC-1 is for fixed station operation...I would like to retain memory information while I'm mobile...thanks in advance for any help...hope I can return the favor some time...73 Bruce (VE5RC) QRP-L#886

e-mail at: rattray@siast.sk.ca

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Dave.Ackrill@westwood45.powergen.co.uk
Subject: [10107] RSGB Propagation web site
Message-ID: <970127220057Z*/G=Dave/S=Ackrill/O=westwood45/PRMD=POWERGEN/ADMD=CWMAIL/C=GB@MHS>

Dear All,

Well although there was no announcement on the RSGB Sunday Morning News (which was what I was waiting for before I sent everyone else a message) I notice that the RSGB web page now has a link to the new Propagation Studies Committee web site.

So, if you are interested, you can either link to the site by first going to the RSGB page at <http://www.rsgb.org> and then going from the index to the Propagation Studies section and taking the hyper text

link to the PSC page.

Or you can go direct to

<http://www.keele.ac.uk/depts/por/psc.htm>

The site is "under construction" but please either drop Martin Harrison (PSC Chairman - email address is at the site) or myself

dave.ackrill@pgen.com

(Anyone who has my old address might like to use the new one. The old one will still work though)

a note about what you would like to see on the page. I suspect that developments may take a while as Martin is very busy at present.

Cheers and please visit the site.

de Dave (G0DJA)
RSGB PSC Committee Member

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "John A. Evans - N3Q00" <jaevans@cos.cst.titan.com>
Subject: [10088] Spectrum Analyzer add-ons for O'scopes
Message-ID: <199701271819.NAA51987@nss2.CC.Lehigh.EDU>

Greetings,

Has anyone had any experiences with any add-on spectrum analyzer equipment for O'scopes?? I'd like to hear of any recommendations for products that are out there OR any references to articles for add-on devices, such as the board(s) that Far Circuits has for this function.

thx es 72 de n3qoo
john

John A. Evans Chief System Administrator
Office: (719) 528-1800 x164 Titan Client/Server Technologies
Fax: (719) 528-1275 1115 Elkton Dr, Suite 200
email: jaevans@cos.cst.titan.com Colorado Springs, CO 80907-3535

Norcal #262 QRP-L #219 QRP-ARCI #8303 NE-QRP #213 CQC #045
CQrp #15 NJ-QRP #50 AK-QRP

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Bruce Rattray <rattray@siast.sk.ca>
Subject: [10091] stacking
Message-ID: <2059171327011997/A12615/RIEL/11B1DB513A00*@MHS>

Here's one for the antenna gurus...I'm wondering if it's possible and/or worth it to stack a Mosley 3 element tribander (Jr.) with a 2 element HyGain tribander and obtain better results both transmitting and receiving?...I'm thinking maybe not otherwise I would probably have heard of someone doing it by now...maybe someone with an antenna modeling program could try this configuration and see what happens?...73 Bruce (VE5RC) QRP-L#886
"QRP! How sweet it is!"

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Larry Gagnon <lgg@ampolexusa.com>
Subject: [10079] Suggestions for backpacking antennas
Message-ID: <1.5.4.32.19970127165453.0066e994@webster.ampolexusa.com>

Hi everyone: I want to construct a QRP backpacking antenna(s) so I'm trying to think of the lightest, less bulky solutions. For single band work I'm thinking of a 300 ohm folded dipole using the lightweight Radio Shack 300 ohm ribbon. For multiband work the St. Louis vertical seems easiest. However, I'm sure there is more experience out there than I have! I'd love some suggestions!

Larry G. Gagnon, Senior Explorationist,
Ampolex USA Inc. 1050-17th st Suite 2500, Denver CO 80265 USA
tel 1-303-595-9000 fax 1-303-595-0110 email lgg@ampolexusa.com

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: [10042] Sunday 30M and 40M
Message-ID: <199701270445.EAA11170@chuck.dallas.sgi.com>

Gang,

Heard some 38S signals on 30M today. Some tuneups.
Tried to contact them, but no luck or they were in
QSOs. N9DD, N2JGU, and others. Going for the weakest
signals on the band now. And I mean weak. I'm still
at QRPp levels too, got one to go on 30M. AK of course.

40M. Test driving the TenTec. Noticed how quiet 40M
was during the Super-Bowl. Didn't watch a lick of the
game. :-) The crowd came back with a vengeance I guess
after the game with the DX pileup at 7.007 or so.

Saturday night, in order on the TenTec: N6XU/qrp, NZ8J/qrp,
W5EOE, W5TZR, KK7BD/qrp, AB7MY/qrp, WU8R, K4NK/qrp.
No DX yet. Won't be reporting any more detailed info.

TGIF - Thank Goodness It's Finished. :-)

dit dit

SIG

Chuck Adams K5FO adams@sgi.com

http://reality.sgi.com/employees/adams_dallas/

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Philip Karras <ke3fl@access.digex.net>
Subject: [10099] Super "mole" LID
Message-ID: <Pine.SUN.3.94.970127160815.25583A-100000@access5.digex.net>

I had a very nice almost 60 min QSO with a fellow QRPer, Max/N0ZNC.
We were having a good time (tho we did have to increase pwr to abt 25 W
to continue the QSO) until a super LID calling himself Tony/WA2PUR
came on top of both of us. He was a mole because before I knew it he
had asked me a question & I answered thinking the question was from
Max. He goofed when he said "u keep calling me max max not my
name..." At that point I kept asking him to tell me when our QSO
started, which after about four times got him very frustrated & he
left. Unfortunately, Max had QRT'ed. I was pretty miffed so I looked
Max up & gave him a land line. That was a much better way to QRT than
to let "Tony" get to me.

This happened in the Novice section of 80 meters, 3.704 MHz.

Has anyone else had a similar experience? This is the first of this
kind I've had in my 4+ yrs of cw hamming.

72 & 73 de KE3FL/Phil

:-)

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: adams@chuck.dallas.sgi.com (Chuck Adams)
Subject: [10040] TenTec 40M XCVR Review [long]
Message-ID: <199701270433.EAA11133@chuck.dallas.sgi.com>

Gang, here is my review.

Review of TenTec 1340 40M CW Transceiver Kit
Review Version 1.00
Chuck Adams, K5FO
January 27, 1997

MFR: TEN-TEC, Inc.
Address of MFR: 1185 Dolly Parton Parkway
Sevierville, TN 37862
423.453.7172 phone number
Designer: Ten-Tec, Inc.
Model: T-KIT Model No. 1340
Size: 3.5" x 5.0" board
Weight: 32.1 ounces for assembled kit with case
PC board: Double sided non-plated-through, non-solder masked
and silk-screened PC board
Manual: 70+ pages 5.5x11" double sided Comb binding
Power : 12 to 15VDC
RX Drain: 35 mA (no signal) 80mA with ~S-9 signal and speaker
This from manual specs.
TX Drain: 800mA on transmit in manual for 3W output
Ant Connection: SO-239 connector
Pwr Connection: RCA phono jack (See personal note below)
Key Connection: RCA phono jack
Aux out: RCA phono jack for accessories or 12V
Modes: CW only
Kit?: Yes. Complete with case and internal parts
Bands: 40M with other bands to be shipped starting in Feb.
LO/VFO: Osc with 4.000-3.930MHz out (7.000-7.070MHz tuning)
Drift: Not measured at this time, not noticable
Dial Range: Marked 0 to 100
RX: SuperHet
XMT: Yes. Rated 3W. Measured 2W into dummy and 2W into
antenna at 12.44V Note: Toroids not compressed to max
out to the 3W rated specs. Final output transistor a

2SC2166.
Filter: Four crystal filter at 11.000MHz
Selectivity: About 900Hz-1KHz
RIT: Yes. Measured +/- 1KHz
Gain: Audio.
AGC: Yes
Preamp: No
Atten: No
SPKR: Yes.
Meter: No
S Tone: Signal monitored. Adjustable level.
VFO: Yes. Covers 70KHz of 40M band.
Output: 3.0W not adjustable
Internal Keyer: No optional keyer kit available
QSK: Yes
Price: \$101.00 US including shipping via UPS
Availability: From Ten-Tec, Inc.
Options: None known at this time
Date of Review: January 27, 1997
Author: Chuck Adams, K5FO
Comments: Another fine rig from Ten-Tec.

This the first QRP Transceiver Kit from Ten-Tec in some time.
TenTec historians can fill us in on this one.

This author had no trouble at any time in the assembly and believes that anyone taking their time and willing to very carefully and patiently put a kit together can do so without much difficulty. I'd recommend some experience on a small kit before tackling this one though, see notes below. No goofs and no missing or bad parts. But this usually the case in todays kit market from my experiences.

Ten-Tec chose to go with a Ten-Tec fabricated circuit board that is non-masked and non-plated through. The latter condition requires extra steps on assembly, such as soldering leads on the component sides in come critical areas. This requires due diligence on the part of the builder, steady hand eye coordination and a small soldering tip. Use no more than a 25W soldering iron of good quality with a good tip. The builder will not be able to and should not use sockets in building this kit. It just will not work.

The assembly manual was done by Dan F. Onley, K4ZRA.
The steps are line per component with a square to check off and you go. XCVR is built in phases.

Here are some notes and helpful hints that I hope Dan and

TenTec can use.

1. Page 8 and 9, steps 1-27 and 1-28. Show L20 location on diagram page 6 of Assembly section. Easter egg hunt here.
2. Page 15. Toroid pictorial has wrong number of turns.
3. Page 22, Step 3-16. Seems to be wrong.
4. Phase 4, starting page 25 of Assembly section. Dan was doing good until here. Show parts in logical order starting at the lower right of diagram on page 24. By this point in the assembly the builder has probably gotten enough experience and confidence to follow the instructions. The way it is done now it is hide and seek for the location and paging back and forth to page 24 to see where things are.
5. !!Page 36. Move steps 6-24, 6-25, 6-26, to the point in previous pages where U2, R8, and R30 were placed on the board. At this point, the pins are surrounded by parts and difficult if not dangerous to get to with a soldering iron tip. Omission of these steps may cause the kit to not work.
6. Page 44 of assembly section. Show an option for those that want mono output for headphones. Leave the stereo plug in the kit, but wire for mono. Later the builder or next owner can update to stereo. Rather simple to do.

I followed the instructions to the letter through the first 3 phases. After that I had enough confidence to stop testing where I had to solder in temporary parts etc. Give me an optional (expert) section at the end if I skipped the tuneup steps on the receiver in between. Will save some time for the expert/experienced builder. The building and testing by phases will certainly aid a lot of builders.

I personally do not like to solder in a part or one lead of a part, do a test, then undo it and resolder. I like neatness in the final kit.

Overall the instructions are pretty good. I think they are detailed enough for the relatively new kit builder.

Please please pretty please TenTec, give me a one page schematic so I can later trace the circuits, not parts of the schematic placed throughout the manual. It will make repair and debugging for a lot of construction much easier and better. Make large enough print to read without a magnifying glass and ink line width doesn't make it unreadable.

In the can-we-make-a-recommendation department for improvements:

1. Please replace the RCA phono plug for power with a barrel connector. This is dangerous and a fire hazard as most QRPers use gel-cells and we all cringe to think what a resistor lead lying on the desk with this puppy out there on a 20Ahr battery could do when shorted. There is room in the back for such an installation and this author plans an immediate installation of same to match all the other rigs in the shack.
Ask the NorCal group about the original NorCal 40 with RCA phono power connector.
2. Offer a speaker option, i.e. rig without speaker for those of us that will never use it and want a slightly lighter rig.
I have mine in but not hooked up. I'd like a solid cover so that dust doesn't collect inside on the speaker as it is now.
3. Front panel hole for 1/4" stereo jack. Start with 1/8" and let us use tapered reamer to enlarge for those that have just gotta have 1/4". I use a Radio Shack conversion plug to 1/8" stereo now for the sets of headphones in use.
4. I reversed the wires on the tuning pot to increase the freq in a clockwise direction, the same direction that the 0-100 scale goes. Make a note in the manual that this can be done.
3->1 and 1->3 changed for this mod.
5. Put note early in manual about the flux coating, etc.
I thought that the board was defective at first.
6. Add keyword index at end of manual.
7. The white silk screen on copper is difficult and tiring on the eyes after periods of time working on building kit.
Go to black lettering?
8. Add circuit pad for optional buffered VFO output to feed an outboard display like those from OHR and S&S Engineering or other sources.
9. Main tuning dial give us a white stripe already on the dial.
If we mess it up, we look bad. :-) I was lucky.

Early personal observations from K5F0:

1. Nice QSK.
2. Nice AGC but some audio distortion on very strong signals.
Maybe due to JFET mixer, not sure.
3. Nice Keying and getting nice on the air comments.
- 3a. Nice sidetone with adjustable level. Internal pot has very small adjustment slots and you may want to include a small tool.
4. Would like internal adjustment for varying transmit output.
5. Receiver seems to have excellent sensitivity.
6. Bandwidth may be just a little wide. Using OHR SCAF for BW reduction.

7. Good components throughout.
8. Picture of Paragon on cover a little misleading. :-)
Can I get one in kit form???? How about an advanced kit next?
9. Measured 70KHz tuning range. No noticable drift.
The latter a surprise considering the 4MHz range of the VFO.
10. Measured 1KHz + and 1KHz - on RIT.
11. Nice heavy duty case.
12. This kit now sets a price point of under \$100 for a Single-Band CW Transceiver with Superhet Receiver and 3W Transmitter with QSK with case.
13. Plenty of audio out. This surprised me what with the 100 ohm resistors in series with headphone outputs.
Did clip the output to the speaker and 1/4 audio gain did provide plenty of audio out.

Frequency counter helps rapid alignment of VFO or general coverage receiver, else wait until final tuneup. I did receiver alignment and peaking using only ear sensitivity. Receiver works very well and can hear real weak signals in the atmospheric noise level.

14. This puppy worked from the very start to finish.
All components were in the kit and clearly identifiable by the author of this review.

Receive mixer using a single J310 JFET. NE602s for BFO and transmit mixer. LM386 for audio amplifier and LM358 op amp for audio preamp and low pass filter. 4ICs and 19 transistors and 13 diodes. Some toroids to wind but detailed instructions on doing so.

This review the personal opinions of the author. I get no consulting fees or other remuneration from TenTec. Other feedback and discussions from other builders encouraged. Let us hear how you did.

See web page below for pictures after late Monday, January 27th.
SIG

Chuck Adams K5FO adams@sgi.com
http://reality.sgi.com/employees/adams_dallas/

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: adams@chuck.dallas.sgi.com (Chuck Adams)

Subject: [10043] TenTec correction
Message-ID: <199701270450.EAA11196@chuck.dallas.sgi.com>

the line that reads

Internal Keyer: No optional keyer kit available
should have read

Internal Keyer: No. Optional keyer kit available.

Manual lists Model 1553 Keyer Board. But there is room between the heat sink and the back of the case to put a CMOS III. The first one to do it wins bragging rights. :-)

SIG

Chuck Adams K5FO adams@sgi.com
http://reality.sgi.com/employees/adams_dallas/

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Dave Adams <adamsclan@netgate.net>
Subject: [10045] The HW-8 works...
Message-ID: <32EC3B52.4249@netgate.net>

...and I'm NOT speaking to soon this time. Another list member (thanks Dan) pointed out that I had already stated the answer...of course, as soon as he said it, I wrote it down in the bonehead hall of fame.

Remember how I said all the diodes were fine except for D7 (diode associated with the 20m tank) which appeared shorted? I let the "20m is working so I'll just leave" overshadow my "don't be an idiot...that ain't right" impulse. Oops...probably not a good idea to have TWO circuits playing at once! So I grabbed a new diode (I bought a handful of NTE177s last time I was at fry's...darn useful!), popped it in and voila! All bands up. Now I just have to re-align the other three bands.

Ahhhh....

73 de dave, n9uxu

Oh...as an added plus I bought and HWA-7-1 at Livermore...it didn't work. It does now and is powering my 8!

Back to the Cascade receiver....

Then maybe I will build that Heathkit RLC bridge...

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Scott Bauer <ke3nv@erols.com>
Subject: [10031] tICK mod, rookie needs help
Message-ID: <199701270153.UAA28734@mx03.erols.com>

Im totally confused, can someone please help me with the Tick mod for the 38spcl. The directions say to solder in R127, R128, C133, C134 ???? I must be missing something, because I dont see them on the board.

The 2N2222 that I purchased was a little metal, round thing that is supposed to go in with the flat side matching the board. It only fit one way easily, so I hope it is in the correct way.

Also, the RIT mod did not give me any more band width. I still get 10.109-10.129.

Any help will be appreciated.

72, Scott

72&73 de Scott Bauer W3CV, Odenton, MD. grid FM19. Formerly KE3NV
Fists 1502 QRP Nut SWL Truck Pilot ARRL
Current QRP rigs: Green MTN 15 & 17, HW-8, G-QRP GQ-40
S&S Eng ARK-20, ARK-30, ARK-40, TAC1-80, all Sensational rigs.
38 special at 300mw

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "chris" <guardianone@mvtel.net>
Subject: [10022] TNX TO JIM W7LS & NE602 INFO
Message-ID: <9701270051.AA24398@host.ot.centuryinter.net>

thanks to Jim I had an answer to my 49er audio problem in 10 minutes flat!! Only on QRP-L what a great group.

next on the list is an article in the FEB 97 ELECTRONICS NOW on using the NE602 . 9 pages of it matter of fact, for newcomers such as myself it is valuable info. Also the article in 73 amateur radio today DEC 96 on "THE ART AND CHALLENGE OF SENDING CW"

Was one of the finest i've read. It answered many many questions that I had and did not ask because I felt like they were stupid. Great info on

sending, about the different keys and keyers. THANKS FTBW

72 73 Chris KB5VYB QRP-L # 853 AK/QRP #38 AR/QRP #32 Man I need to get a life.

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "Len W. Touth" <len@infinet.com>
Subject: [10089] TOROIDS: A Question re: LDG and Hot-Glue
Message-ID: <199701271825.NAA29099@mail1.infinet.com>

Hi Gang!

Just curious here.

I spent the weekend building the LDG QRP Autotuner kit - quite a few Toroids. The manual recommends using a hot glue gun to hold them in place. They are assuming mobile operation.

I have been following the thread re: Toroids. I have a question. How much does (can) hot-glue change the value of the toroids. Is is negligible? Should we even worry? It is too late for me since I have already hot-glued them in. The tuner seems to work FB, so I guess all is well that ends well.

I am one that always dreaded winding toroids. After the 8th toroid this weekend, I sure was getting the hang of it. I started to think - this really *is* easy! Much harder, in my opinion, to solder a very small trace with other small traces in very close proximity

*****.

BTW, as a sidebar - this little tuner is spectacular! Goes together very well, and fits into a R/S 270-214 Instrument/Modem project case well. It actually worked on power-up with no problems at all. Tunes very quickly.

I loaded my 6 meter dipole to a 30 meter qrp rig well within two (2) seconds. Not bad! I see that I have a 38 Special on my bench waiting for solder. Can't wait 'till next weekend. At least now I have absolutely no fear of toroid winding <g>.

Thanks.

Best 72/3

Len
KG8SF
len@infinet.com kg8sf@key.com

QRP-L # 841 CQrp # 2 ARCI # 9025 FISTS # 2134

CHARTER MEMBER - THE COLUMBUS QRP CLUB - CQrp
Web Page: <http://www.infinet.com/~len>

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: ed.welch@cheaha.com (ED WELCH)
Subject: [10108] Trimmed 40m dipole to 30m, but...
Message-ID: <8D0E395.00040001BF.uuout@cheaha.com>

Ok, I had a few minutes to tinker this afternoon and I decided to get an antenna fixed up for the NC38S. I had a 40m dipole up that I really haven't used much since throwing up the loop so I figured it was a likely candidate for trimming. I've never really had trouble throwing up a dipole, especially since the appearance of the MFJ-259. Well, I trimmed it close and measured it. It was a tad long so I trimmed off another 10". This got it down into range but still things aren't good.

The range of SWR reading are from 10.00mhz - 10.30mhz. These range from 1.60 to 1.70. Resistance is high averaging about 85 ohms. The resistance, I guess, is what's throwing me. If I tune the 259 on either side of these freqs I can see that this is the most resonant length, but the SWR/resistance readings don't seem right to me. If I ended up trimming the dipole legs uneven (12awg house wire) would this account for the high resistance?

The dipole is up 30-35 feet. The coax comes away at not quiet a 90 degree angle, but close.

Like I said, this is for the NC38S so I want it to be as efficient as possible. So, anybody got any thoughts on the high resistance???

Tnx agn!!!

72/73
Ed Welch KF4KRV
QRP-L #873
Luverne, Alabama
Crenshaw County - Grid EM61

+-----+
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----
+-----+

> Isn't "time" a 4-letter word? <

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Bill Acito 27-Jan-1997 1012 <acito@asdg.UNET.dec.com>
Subject: [10071] TS130SE and other assorted items for sale
Message-ID: <9701271533.AA01904@us1rmc.bb.dec.com>

Starting to get a pile together for a hamfest in February, but I thought I would offer here first.

-I have a TS130SE station I'm looking to sell. This is the rig, the remote VFO, hand mike, and the matching mobile antenna tuner. From what I understand, the SE is an S with the fan included as bought, no other differences. It also has the narrow 250Hz CW filter installed. I have all the manuals, and a stack of mod literature as provided from N4BP and others on the net (none have been done to it). I'm looking to sell the package. No firm price yet, but drop me a line. Would like to see it go to someone who may have a 130V and wants a big brother. :-) Excellent physical condition, and I'm a non-smoker.

-I have a spare Yaesu 757AT auto antenna tuner. This was the matching tuner for the 757GX, and has the same form factor. It autoband switches with the 757 and 980, but can be used with any HF rig with at least 15W min. It has a built-in dummy load, power, and SWR meter, and handles two antennas (separate memories for each). I have one control cable and one spare to include, and the manual. \$250

btw, for those of you who answered my request for antenna help, I'm sorting through the replies now, along with 300+ work email messages. Nothing like a four day flu to sidetrack you.

b

. - I own my own words -
Bill Acito

acito@asdg.enet.dec.com

|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

W1PA

qrp-ne qrp-l adv-rs arco norcal amsat-na arrl-life

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: SEAB&SHARON LYON <SSLYON@worldnet.att.net>

Subject: [10047] URL's/Websites... THANK YOU!!

Message-ID: <19970127050914.AAA20302@LOCALNAME>

I really got more than I had hoped for and now have a great and more extensive bookmark file. Thanks to all who responded, -it was a real eye opener to see the monumental works appearing at some of the websites I cruised. Most rewarding, and humbling as well. You can bet a backup system of some kind is high on my priority list now. Muchas Gracias Amigos!! 72 =s=

"Seab" Lyon, AA1MY

Bethel, CT; FN-31-HJ;

ARCI#9253; QRP-L#574;

ARRL; QCWA; B.C.I.

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: Bill VanRemmen <billy@frontiernet.net>

Subject: [10033] VHF SWR meter

Message-ID: <199701270149.UAA76058@node1.frontiernet.net>

A friend mentioned that there has been some discussion regarding my recent article in QST "A Pocket-Size, Direct-Reading, VHF SWR Meter", so I decided to join the list and see what's up!

'73

-Bill VanRemmen, KA2WFJ

billy@frontiernet.net

<http://www.frontiernet.net/~billy/>

My opinions. No one in their right mind would claim otherwise.

=====

"Experience should teach us to be most on our guard to protect liberty when the government's purposes are beneficent . . . the greatest dangers to liberty lurk in insidious encroachment by men of zeal, well

meaning but without understanding."

Justice Louis Brandeis
Olmstead vs. United States,
United States Supreme Court, 1928

=====

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: k5zty@juno.com (WILLIAM A STIETENROTH)
Subject: [10015] Want: surplus Allen Bond pwr. supply
Message-ID: <19970126.235138.5247.1.k5zty@juno.com>

G.M. to the group.

I read, albeit too late, the post from Paul about his selling of his surplus Allen Bond power supplies. I wanted one of those supplies from the first offer, but didn't want a case of them. I had hoped that some of the case buyers would part with their surplus ones. If anyone else has a surplus Allen Bond power supply that they want to sell, please send me an email to K5ZTY@juno.com.

Thanks es 72 to the group,
Bill, K5ZTY

WITHOUT CW, IT'S JUST CB
ARCI 8817, CQC 178, NOR-CAL 1321, MI 1472, NE 440
QRP-L 473

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: ed.welch@cheaha.com (ED WELCH)
Subject: [10026] Want: surplus Allen Bond pwr. supply
Message-ID: <8D0D480.0004000168.uuout@cheaha.com>

-> I read, albeit too late, the post from Paul about his selling of his
-> surplus Allen Bond power supplies. I wanted one of those supplies
-> from the first offer, but didn't want a case of them. I had hoped
-> that some of the case buyers would part with their surplus ones. If
-> anyone else has a surplus Allen Bond power supply that they want to
-> sell, please send me an email to K5ZTY@juno.com.

Same here, gang. I wouldn't mind having one to work with too. Tnx.
email: ed.welch@cheaha.com

72/73

Ed Welch KF4KRV
QRP-L #873
Luverne, Alabama

Crenshaw County - Grid EM61

```
+-----+  
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----  
+-----+
```

> Isn't "time" a 4-letter word? <

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Jim Hydzik <congress@magpage.com>
Subject: [10097] WEST VIRGINIA FSFD TONIGHT-Monday
Message-ID: <199701272014.PAA01383@alaska.magpage.com>

Hi All,

W8PT, Rich will be on tonight propagating from West Virginia:

2200-0000 MON-UTC 7.038-7.042

0001-0400 TUE-UTC 3.558

Sri Gang, left off of the last schedule.

Nebraska and West Virginia...coast-to-coast fun tonight, Jim K3QIO

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: ed.welch@cheaha.com (ED WELCH)
Subject: [10048] WM-2 watt-meter complete and working!!!
Message-ID: <8D0D4C1.0004000178.uuout@cheaha.com>

For some reason I feel I might have already sent a message out regarding the status of my WM-2 watt meter. If I have....well...a mind is a terrible to use, er, waist,er...well, do something with anyhow.

After talking with Dick at OHR I finished the building project of the meter. Then came the test....hooking up my 40a.

The meter worked flawlessly, nice action. Solid kit. Good material, construction went flawlessly (except for the operator error). One thing

I would recommend is to cut the wires going from the board to the meter lugs just a tad longer than what I did. Add about an 1/8th of an inch to the manual's instructions. Mine ended up short for some reason and barely would lay against the lugs with not enough to loop through the eye. I soldered them against the lugs and it's a solid contact. No problem, but thought I'd mention it. Good-looking meter, too!

Only thing is that I've been lying to folks when I give them my power report...been saying 2 watts, should've been 1.5 watts! :) I turned R13 in the 40a to wide open, then backed it back down till I saw a slight dip in the meter reading....meter showing just a hair under 2 watts out. Not sure what the optimal reading is for a 40a, but after all the qso's that I've had at a watt and a half I'm sure I'll be happy with the *almost* two watts! :)

To really check it out I had to get on the air for a couple of qso's.

First was with Ali, KB0TQG, in Springfield, MO. Got a RST of 579. Rig was a "Collins with a Chirp". He'd just sent off for a 40a. :)

I had a couple of partial qso's with KC5MXH(QSB/QRM) and KC\$RAK(rx rst 579(QSB/QRM)).

Then I connected with K8ZIB in Columbus, OH. RST was 599 and he was coming in with a solid 559 with a Drake tr4 at abt 100w! Really blew his socks off when I told him I was kicking back at him with a whopping (almost)2-watts!<big grin...I love it!> Anyhow, I'm sending him some info on the NC40a and on the NC38s....maybe a new convert?! :)

So, I've got the meter inline, I'm making contacts, I'm happy. Now.....on to the 38 Special!!!!

72/73

Ed Welch KF4KRV

QRP-L #873

Luverne, Alabama

Crenshaw County - Grid EM61

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+-----+
-----+ Norcal 40a es Straight Key es Wire-wrapped Trees +-----
+-----+
```

> Isn't "time" a 4-letter word? <

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: k5vp@earthlink.net (Kevin Potter)

Subject: [10028] WTB 49er

Message-ID: <v01540b00af11b4363627@[206.250.92.55]>

I've seen some posting on a few people selling ready-to-assemble 49ers.

I've been quick on the draw BUT not quick enough. If you are considering selling a 49er, to be built or built & working well, PLEASE send me an email with your price!

Been out of the hamming loop for 15 years & ready to qrp! BTW, I have ordered a 38. Hope there are enough to go around.

Either way I will make every effort to qso with all of you! Oh no, now I've think I better get some qsl cards on hand.

BTW, I received some good info on 6 meters that I am reding on. Thanks to all!

A real 72 to all,

Kevin

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: Joel Malman <malman@BBN.COM>

Subject: [10017] [Dan Robbins: Re: AL7FS qrt]

Message-ID: <199701270014.TAA45192@nss2.CC.Lehigh.EDU>

----- Forwarded message # 1:

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: tayloe_d@juno.com (Daniel R Tayloe)

Subject: [10034] Re: 160 contest

Message-ID: <19970126.190738.7719.1.tayloe_d@juno.com>

> QSOs Countries States Districts Tot
Points

> 101 5 32 2 8280

>Rig FT 990 modified per recent Sprat at 5 watts) Antenna- Gap Voyager

>Again, I'd like to hear from other QRPers that participated.

Way to go Ken! I want to know what the secret is to working so many QSO!

Here in Phoenix, I work about 23 stations, which was about everyone in AZ, NV, NM, UT, along with a few CO, and CA.

I seemed to have a hard time being heard. I quickly found out that I would *not* be heard at all unless I was almost *exactly* zero beat with them. I earned many AGN? QRZ? KK? queries.

But hey, it was a new homebrew rig, it was a good shakeout, and a lot of fun!

- Dan Tayloe, KK7BD, Phoenix, AZ, QRP1 #696, AZ ScQRPions

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: wmcshan@REX.RE.uokhsc.edu (Mike McShan)
Subject: [10037] Re: 38 Spl.-raspy output!
Message-ID: <v01540b00ad2f4a063b50@[157.142.8.152]>

>Hi all,
>
(snip)

>However, my real problem lies with the output. Aside from having NO
>sidetone, the output is very raspy at the low end of the tuning range.
>(distorted sine wave as well) On the upper end, the tone (as monitored on
>an FT-990) is clean, with an accompanying clean sinewave. What would cause
>this to vary so much from one end to the other?? Anyone else had this problem.
>
> Any advice would be greatly appreciated.
>
> Thanks & 72==Phil

Hi Phil,

My 38S did the same thing - when I examined the circuit board carefully I discovered that the trace cut for the 5W power mod still had bits of copper where the cut was made. I cleaned out the cut and voila! Stable, clean signal on both ends of the tuning range. You might check here first.

Mike N5JKY
Edmond, OK

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
Subject: [10081] Re: 38S - Need Help! (long)
Message-ID: <199701271715.LAA03698@multi13.netcomi.com>

Jim --

Sure sounds like the IRF510 is shorted. In fact, you have all the symptoms of an IRF510 with too high a bias voltage.

Are you absolutely sure that you have removed the resistor that connects the FET gate to +12 volts?

Another possibility might be a problem in the keying circuit that enabled U4, the HC240.

So, before you put a new IRF510 in, turn the rig on, measure the voltage at the gate pin. With key up, it should be 0. Also, measure the voltage at U4 pin 1. It should be 8 volts key up, and 0 volts key down.

Mike K1MG

>
> After doing the mod (and KM1G's additional mod), I hooked up the rig
> and powered it on. Heard audio through the headphones for about 30
> seconds or so. I was sending v's from my other rig into a dummy load
> so that I could find my signal on the 38S. Never even got a chance to
> transmit with the 38S to check the 5w mod. Audio went dead. No power.
> Blew the fuse in the external 13.8vdc power supply. Rats. (badgers?)
>
snip....

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Stanley Wilson <microres@crl.com>
Subject: [10066] Re: 38S parts
Message-ID: <Pine.SUN.3.91.970127060907.24969A-100000@crl4.crl.com>

George go into any of your local motor repair shops and they will be glad to give you several feet of wire. Take a piece with you to get near or same size. de stan ak0b

On Mon, 27 Jan 1997, George Stratemeier wrote:

> Hi folks,

>
> I seem to have come up short on wire to wind the toroid for the
> 5W mod. Since I have never done toroids before I tried to be careful
> measuring the wire, but I still came up short. I am having trouble
> finding enameled magnet wire locally and am wondering if anyone could
> check out Mouser part # 501-MW26H-1LB and tell me if you think it is
> suitable. Or perhaps someone from Norcal could find a moment to let
> me know where they got the wire for the kits.
>
> TIA
>
> George Stratemeier (N3WXI)
> Pittsburgh Pa.
> QRP-L #440
>
>
>

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: n3wxi@sgi.net
Subject: [10114] Re: 38S parts
Message-ID: <199701272322.SAA19147@orion.bv.sgi.net>

At 08:58 AM 1/27/97 -0800, you wrote:

>Hi folks,
>
> I seem to have come up short on wire to wind the toroid for the
>5W mod.
>George Stratemeier (N3WXI)
>Pittsburgh Pa.
>QRP-L #440
>
>

Dear QRP-Lers,

Well I guess it's my turn to sing the praises of this list. The response to my request was truly amazing. After all these years I've fallen in with a really great bunch of folks. Thanks to all who offered to send me the wire, especially Bob Parks (K6AEC) who sent me some without even being asked. My junk box is rather sparse at this time but if ANY of you ever need a part, post to the list and if I have it, it's yours.

To those who mentioned the 3 spool sets at Radio Shack, may I humbly ask a question? I thought the "enamel" on enameled wire acted as an insulator. The wire spools I saw at Radio Shack had regular insulation on them. If I stripped off that insulation wouldn't the wire then be bare copper and wouldn't

this cause shorts? Maybe I missing something rather simple here.

So, once again, many thanks to all who responded and see you on 30 soon.

George Stratemeier (N3WXI)
Pittsburgh, PA
QRP-L #440

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>
Subject: [10119] Re: 38S parts
Message-ID: <Pine.A41.3.95b.970127154546.146886C-100000@homer21.u.washington.edu>

It's called magnet wire and the Radio Shack part number is 278-1345. It consists of 3 rolls of enamel covered wire in the following sizes: 22ga (40ft), 26ga (75ft), 30ga (200ft). The price is 4.99 per package. I use it with excellent results. Can strip it with the Strip-X stuff or use a bit of oven cleaner if handy. Enjoy!

Stephen Lee, AB7HI, Tacoma, WA
slee@u.washington.edu

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: NilsBull@aol.com
Subject: [10032] Re: 38S: IRF510 5W MODS/Output Filter
Message-ID: <970126210413_1013424072@emout11.mail.aol.com>

Paul,

First, I found the book, so you're out what I'd spend to replace it. Sometimes the badgers do a decent job. The rest of the time I get lucky.

Second, you are amazing the blazes out of my badgers. All these neato tests and we all end up getting a much fancier radio than we'd even first imagined. More neato is that we're all doing this for fun. So much for not enough intelligent technical stuff appearing on the list, seems to me. Anyone who can provide the info that you've given on the NC38S to make it a "better" radio is obviously not sitting around waiting for medication time. (Like me,

frinstance... but that's another story.)

I hope that the NorCal loonies, once they get their post-kitting medication and have relaxed a little (preferably with unas Coronas Extras... "la cerveza mas fina de todo el mundo," like the Mexican radio stations of my youth used to say), that one or another of the scribal folks puts all these mods and mods to mods in one big chonk of a file and sits 'em out fer us to graze at. What with the TiCk keyer (which I'm still waffling on with my Peruvian cheese otter connection), the possibility of a clock/counter/display, the 5 watt mods upon mods and the Rainbow ATU/bridge set up, it's starting to look like the NC38S is gonna be one of those "damn, I wish I'd bought one" deals.

Damn glad I bought one... even if it doesn't come until after Ramadan... but that's another story.

Tnx to all for this marvelous experiment & radio lesson. Or, as Paul asked facetiously, "Are we having fun yet?" I know that I am just sittin' on the porch with the washin' machine waitin' for the dogs to tell me that the mailman's on his way.

73
Nils
WB8IJN +c

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [10059] Re: 38S: IRF510 5W MODS/Output Filter
Message-ID: <Pine.SOL.3.94.970127070330.13108J-100000@utkux4.utcc.utk.edu>

Once appropriate testing is completed by all those modifying the IRF510 amp, perhaps the 38S board can be modified for future runs to make the "best" version of an amp a "no-trace-cut" job and with pads for the needed components. It appears that the basic design will have a very long life and that a 38Sa version may turn out to be in order.

A tip of my hat to all those who have made discoveries in their experimentation--well done!

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Dan Robbins <kl7y@Alaska.NET>
Subject: Re: AL7FS qrt

At 02:52 AM 1/26/97 EST, you wrote:

>Dan ...

>

>I heard that you let Jim use your station in this FSFD effort. And I have
>heard some scratchy details of just how great a station setup you have.

>Being an admirer (sp) of great stations (gosh knows I don't have one),
>please tell us about ur station.

>

>tnx .. 73

>

>/joel walqvm (concord, ma)

Joel,

I've unsubscribed to the QRP reflector as I joined briefly just to help Jim. If you want to forward this to the relector, I don't mind. My 6 acre QTH is in a wooded area about 35 miles NNE of Anchorage. I have 2 neighbors in my "subdivision", one raises hybrid wolves, the other seems intent on raising many children. The QTH is on a small ridge and from the top of the towers there is nothing higher in any direction until you hit the distant mountains. It is a good, quiet QTH with no obstructions higher than 4 degrees in any direction.

On 20 meters Jim was using the 205BA at 125' plus a 204BA at 60'. The normal 30 meter antenna is a dipole at 100', but this antenna runs E-W and has a null right on stateside. Jim wound up using a 160m inverted vee at 150' on 30 meters because it worked better than the dipole. On 40 meters, the antenna is a 3 el yagi made from old Hy-Gain 402BA elements with a new 38' boom. This antenna is also at 125'. On 80 there is a pair of phased slopers going east off of 2 of the 125' towers. Jim listened on 15 but didn't get an opening - there's a pair of stacked Hy-Gain 155BAs at 125' and 75'. For 10 meters, there's another stack of Hy-Gains at 132' and 75'. On 6 meters, there's a Hy-Gain 6 el at 60'. I prefer the Hy-Gains because they seem to hold up in the winds. A few hours after Jim left the winds picked up, gusting to 70 mph over night.

What I wanted was a select QTH with a good, rugged antenna system. Jim's success with a puny 5 watts certainly validates my goals. Maybe he can come up someday when conditions are really good....

Dan KL7Y

----- End of forwarded messages

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [10058] Re: Bow-Tie Antenna Length
Message-ID: <Pine.SOL.3.94.970127061432.13108I-1000000@utkux4.utcc.utk.edu>

I have seen two types of antennas called bow ties listed. One is a pair of triangles, closed, on each side of a feed point. This is a true bow tie and it amounts to a dipole that is shortened by using the spread of wires as a very fat wire. For 10 meters, I have modeled and made one as short as 0.22 wavelengths long and the same wide. These are also called fans, but there is also the practice of fanning multiple dipoles from one feedpoint, so that is no less confusing. Fan dipoles (or bowties) can be set up vertically or horizontally. They perform like dipoles.

The other consists of two elements in the horizontal plane with a gap between the ends of the side wires. Most common is feeding the rear wire and using the forward wire as a director. This arrangement is also called the folded X-beam and goes back into the 1960s in CQ, as well as appearing in the ARRL Antenna Compendium Volume 1 and a couple of issues of the ARRL HB just before the major revision in 1995. It is derived from, but is superior to, a true X and a Roman X, and is much more compact.

When installed $1/2$ wavelength up and higher, the pattern gives a forward gain about 1/2 dB less than a standard 2-element Yagi, or about 3 dB better than a dipole in the same position. The rear lobe can have, with precise length adjustment of the wires, a deep null to the immediate rear, but with 2 quartering rear lobes down by only about 10 dB from the forward lobe. However, the feedpoint impedance in this arrangement is about 25 ohms, calling for something like a beta match. If arranged for 50 ohm feed impedance, the rear lobe expands to a broad oval down about 8-10 dB. You can also lengthen the director and place a capacitor at its center, tuning the antenna pattern by that means. For 10 meter portable use, I used $1/2$ w1 of 450 line from the director center and placed the capacitor down where I could tune it on the run. The setting changes across the wide 10 meter band. You can also set the element relations for more gain, but the feedpoint impedance goes down to 10 ohms and the rear lobe expands very rapidly--in my view, the better F-B is worth more than the extra half dB of forward gain.

For a detailed analysis of the folded X-beam, see Communications Quarterly for Winter, 1995, page 33 ff. A future issue of Com Quart will have an article on making 2 element beams from true fan and bowtie elements.

In the meantime, if you want to try a folded X-beam, be careful of dimensions. The ones analyzed, following W9PNE's work, use aluminum tubes with copper end wires. If you go to all wire construction, dimensions will change, and I'd suggest modeling the antenna first to get you in the ballpark for end separation and overall element lengths. For all wire, you can use NEC-2, but if you use a combination of al tube and cu wire, use MININEC and taper element segment lengths toward the acute angles. If you merely cut to formulas, odds are that this slightly finnick configuration (and all antennas with very acute angles along elements get finnick) will not perform better than a shortened dipole--too many variables in the parasitical relationships for "slap it up and call it good" methods of construction. For example, my portable 10-meter model with a tunable director and a beta match on the driven element ended up with the director being longer than the driven element. Drove some folks crazy who only saw the physical elements, but made eminent electrical sense: you lengthen an element--making it inductive--to tune it with a capacitor and to match a driven element with a beta match, you shorten it to make it a bit capacitive.

I hope these notes are useful, but suspect they may add to the confusion. There is an old habit in amateur radio antenna experimenting of trying to reduce antennas, however complex, to a set of " $L=12345/f$ " formulas for scaling frequency. With simple antennas, this technique works ok as a starting point for your own experiments. With more complex antennas and changes in element diameter, the technique tends to give the impression that one can simply erect the antenna as a cookbook exercise and the result is a poor performer (although the user may not realize this). This is especially true when we put the antenna below 1/2 wavelength up.

It is better to a. first understand how the antenna works, including all the variables involved, and then b. try to model or get it modeled for your own installation set-up, and c. know in advance what the best experimental moves are for tweaking it to just where you want it. For example, suppose you want to put up a simple 2-element Yagi. You see some formulas or lengths. But what are the variables you can control? a. Driven element length; b. reflector length, and c. spacing. Do you know what is likely to happen if you change each of these by a little? By a lot?

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997

From: "Duane C. Johnson" <redrok@pclink.com>
Subject: [10076] Re: Clarification on tuner purchase
Message-ID: <32ECF4BF.21C9@pclink.com>

Hi LB;

L. B. Cebik wrote:

>

> I have seen two types of antennas called bow ties listed. One is a pair
> of triangles, closed, on each side of a feed point. This is a true bow
> tie and it amounts to a dipole that is shortened by using the spread of
> wires as a very fat wire. For 10 meters, I have modeled and made on as
> short as 0.22 wavelengths long and the same wide. These are also called
> fans, but there is also the practice of fanning multiple dipoles from on
> feedpoint, so that is no less confusing. Fan dipoles (or bowties) can be
> set up vertically or horizontally. They perform like dipoles.

You may be using the common name for "Bow Tie" built from wires.

The "true Bow Tie antenna" is built from flat metal sheets in the form
of 2 triangles with the apexes close to each other and fed at the
apex. These antennas are true log periodic antennas. The driving
impedance is a function of the apex angle of the triangles. The bandwidth
generally is determined by the length of the triangle edges and higher.

Check out "Reference Data for Radio Engineers" sixth Edition page 27-18
Frequency-Independent Antennas
Logarithmic Periodic Antennas
>From Howard W. Sams

All the wire type of antennas are just variations of dipole antennas
which are not wide bandwidth antennas unless you use so many wires
that the spaces between them are filled and make a wide sheet.

> The other consists of two elements in the horizontal plane with a gap
> between the ends of the the side wires. Most common is feeding the rear
> wire and using the forward wire as a director. This arrangement is also
> called the folded X-beam and goes back into the 1960s in CQ, as well as
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>

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> down where I could tune it on the run. The setting change across the wide
> 10 meter band. You can also set the element relations for more gain, but
> the feedpoint impedance goes down to 10 ohms and the rear lobe expands
> very rapidly--in my view, the better F-B is worth more than the extra half
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>
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> ballpark for end separation and overall element lengths. For all wire,
> you can use NEC-2, but if you use a combination of al tube and cu wire,
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> configuration (and all antennas with very acute angles along elements get
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> starting point for your own experiments. With more complex antennas and
> changes in element diameter, the technique tends to give the impression
> that one can simply erect the antenna as a cookbook exercise and the
> result is a poor performer (although the user may not realize this). This
> is especially true when we put the antenna below 1/2 wavelength up.

>
> It is better to a. first understand how the antenna works, including all
> the variables involved, and then b. try to model or get it modeled for your
> own installation set-up, and c. know in advance what the best experimental

It will automatically read the amount of available memory then set the BIOS CMOS memory to that value. You want to make certain that you don't have a memory module connector problem before you command the save to CMOS and do not change any other parameters.

So what happens if, say, for a quick fix you just command a CMOS save? Most likely you will experience software lockup and computer crashes in random occurrences. Your amount of memory that appears in the memory check at power up will be an odd value. That's a clue there will be continuing problems. If you're running Win95 and it crashes then the next boot of Win95 will be the most fundamental application of Win95. It will warn you there was an unknown problem and advise you to fix it.

Good luck there...it's not as bad as it seems, hi.
Stephen Lee, AB7HI, Tacoma, WA
slee@u.washington.edu

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "'AB7HI' Stephen Lee" <slee@u.washington.edu>
Subject: [10090] Re: Computer Question
Message-ID: <Pine.A41.3.95b.970127103427.40218A-1000000@homer13.u.washington.edu>

I found we have a system here at work that uses AMI BIOS. Looks like there's a couple things that can result in an A-20 failure.

#1: The keyboard controller can be bad.

#2: The BIOS cannot switch to protected mode.

I've learned these error messages do not necessarily point to the problem. See if the keyboard has somehow been locked. Did you set the BIOS to protected mode only? Hopefully this will jog your memory, hi. Been down that road myself many times.

This may be a work around: Go to your BIOS and write down all the configuration data for the entire BIOS. Then go into your advanced BIOS and select "Configure with BIOS defaults." The PC should boot up then you can restore the prior settings. Should also lead you to the setting which got fouled.

If the memory had been acting up you would see messages like:
"CMOS Memory Size Mismatch", or "On Board Parity Error", or
"Parity Error ?????."

Hope this helps out.
Stephen Lee, AB7HI, Tacoma, WA
slee@u.washington.edu

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "Jim Kortge, K8IQY" <jokortge@tir.com>
Subject: [10018] Re: Crystal Parameters (Long Answer)
Message-ID: <1.5.4.16.19970127011523.25c752e6@tir.com>

At 09:23 AM 1/23/97 -0800, Dan Puckett wrote:

>>

<snip>

>>

>> Series Resonant Frequency (F0): 11.996920 MHz

>> Series Resistance (Rs): 15 Ohms

>> Q: 118,500 (Highest I've ever measured)

>> Motional Capacitance (Cm): 7.4×10^{-15} Farad

>> Motional Inductance (Lm): 2.36×10^{-2} Henry

>

>Ok Jim,

>

>The question of the day is: How did you measure these things? I have
>this creeping fear that everyone else knows how to characterize a
>crystal but me.

See long winded answer below.

>I have tried building a few filters by plugging xtals

>into an oscillator and matching frequencies as close as possible.

>Unfortunately, my old freq counter doesn't have resolution below 100Hz.

You need at least 10 Hz resolution, and 1 Hz is better. You normally
want to match within 100 Hz across the whole set.

>My filters have left a bit to be desired. Fortunately, I now have a new
>counter that will measure down to the Hz range. What else should I be
>measuring and how do I measure it? Further, how to I use the data after
>I have collected it. Is there a way to predict or measure the input and
>output impedances?

Answered below also.

>Have I asked enough questions?

Yes!

> Are there any badgers loose Nils's place?

More than likely..... :-)

>

Hi Dan....I doubt that you are alone in having the equipment to measure crystal parameters. Actually, measuring the basic parameters that allow calculation of the Q, Cm and Lm values can be done a number of ways. I happen to have a very nice digital signal generator that I use with a scope to make the basic frequency measurements of Series Resonance, F0, -3dB points, (Delta F) needed to compute the Q and Cm, and Series Resistance, Rs, also needed to compute Cm. January 1990 QST has a test set designed by Doug DeMaw, W1FB that will allow one to measure these parameters also.

Essentially, here is the technique. Drive the crystal at a relatively low level from a 50 ohm source, and find its highest output, using a detector which also has an impedance of 50 ohms. I actually isolate the generator from the crystal under test with a 6 dB attenuator. I can find the resonant frequency (F0) of the crystal within 0.1 Hz, but usually settle for 10 Hz. Having done that, I then increase the output of the generator by 3 dB, and tune the generator higher in frequency until the signal from the crystal is back to full scale, i.e., where it was when I was finding the resonant frequency. This procedure is repeated going lower in frequency. These two points now are the -3 dB or half power points (Delta F) on the response curve, and are necessary for computing the Q and Cm. Finally, to determine the equivalent series resistance (Rs) of the crystal, I return to the resonant frequency test configuration, remove the crystal, and substitute a 100 ohm potentiometer in its place. The potentiometer is adjusted until the signal on the scope is the same amplitude as it was with the crystal. The potentiometer is removed from the circuit, and its resistance is measured with a digital ohm meter. Its value matches the series resistance of the crystal at resonance. These values range between 5-50 Ohms on useable crystals.

The calculations are in an article by Wes Hayward, W7ZOI entitled "A Unified Approach to the Design of Crystal Ladder Filters" QST, May 1982, page 21. I don't have the complete article, only the last page with the formulas on it. There is also a second article in QST, July 1987, page 24, called "Designing and Building Simple Crystal Filters" which has additional information. (BTW, I would be eternally grateful to someone on the list if they could copy these articles for me. I'd pay any and all expenses.)

The crystal Q is computed by the formula:

$$Q = 1.2 \times 10^8 \times F_0 / \Delta F \times R_s$$

Typical values range from lows of 50000 to highs of maybe 200000.

The motional capacitance, C_m , is computed using the formula:

$$C_m = 1.326 \times 10^{-15} \Delta F / F_0^2 \text{ (Farads)}$$

These are typically very low values, on the order of $5\text{--}20 \times 10^{-15}$ Farads)

Finally, the motional inductance, L_m , is computed from the formula:

$$L_m = 19.1 / \Delta F \text{ (Henrys)}$$

Typical values here are rather large compared to the C_m values, usually in the range of $1\text{--}20 \times 10^{-2}$ Henrys.

As far as designing the filters, I use the software that came with Wes Hayward's "Introduction to Radio Frequency Design", ARRL publication 4920.

There are other techniques that can be used to characterize crystals also, most notably, a technique developed by Dr. Dave Gordon-Smith, G3UUR. I have used this method also, and it yields comparable results.

Please understand, I am still a "newbie" at all of this, and there are probably others on the list who know much more about this than I. What I lack in knowledge, I tend to make up for in experimenting, building, and testing.

As for testing, I use the same digital signal generator to sweep filters that I have designed and built to see how good (or bad) they are. Like you, some of the units that I have built, thinking that I did everything correctly, look absolutely HORRID. I've had my best successes cascading rather simple 2 crystal filters into 4 and 6 crystal configurations. These seem to work as designed, and have good shape factors. Some of the more traditional ladder designs for SSB (i.e. 2.4 KHz bandwidth) I have never gotten to work to my satisfaction. Maybe that means I need to learn and understand more! :-)

Hope all this is useful Dan. Thanks to all for the bandwidth.

72...Jim

Jim Kortge, K8IQY (ex NU8N)		BMHA, NorCal, QRP-L
jokortge@tir.com	__o	Cascade 17/40 SSB

Fenton, MI |_`\
... .. (*)/(*) Mizuho 17/40 SSB

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Dan Puckett <dpuckett@erinet.com>
Subject: [10054] Re: Dec QRPP
Message-ID: <32EA0359.6A8@erinet.com>

Mail Delivery Subsystem wrote:

>

James W. Cates wrote:

>

> To those of you waiting for your issue, if it is of any consolation, I
> have not received my copy either. As far as I know, neither has anyone
> in Sacramento. But, we keep the faith, USPS.

>

> Happy Super Bowl Day! jim, WA6GER.

What bugs me is that I went to a Dayton Amateur Radio Association meeting on Friday. One of the members was showing off his copy of QRPP. Now, I understand they are shipped second class and that they get here when they get here. His, however, was sent to him by someone he had had a QSO with in Texas. It not only got to Texas before I received mine, it was shipped a second time and still beat mine here. The good news is mine got here on Saturday. And another excellent issue it is. Never a grip about the content from me. Well maybe. I was kinda looking forward to a picture of Nils' badgers. Maybe next issue.

Just me grumbling,

Dan WD8AAU
dpuckett@erinet.com

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: cjl@mail09.mitre.org (Charles J. Ludinsky)
Subject: [10068] Re: Dummy Loads and the use thereof
Message-ID: <970127100127.591@mail09.0>

Bob (KE4QOK) wrote:

> At 08:32 PM 1/25/97 +0000, you wrote:

> >I don't mind a tuner upper if:

> >

> >
> >a). It is kept short (1 sec).
> >b). The freq is not in use. Should have checked.
> >c). They call CQ after tuning up!
> >
>
> I agree here with the occasional exception of c). I have sat down to the
> rig before and heard someone I wanted to work just as soon as the audio came
> up, so I had to slide off to quiet spot to tune up and then back to the
> part/frequency of interest.
>
> But generally speaking what you say is right, especially on qrp where
> contacts are more sparse. It is frustrating to hear someone tune up and
> disappear.

Even more frustrating is to respond to the initial call of someone in
FSFD, have him reply to you, then lose him when several others start tuning
up right on frequency.

Most of our QRP fraternity are good about not doing this, but, please,
everyone,
don't tune up right on frequency on top of someone else!

72, Chuck
K1CL

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: w77kxb@juno.com (William Harris)
Subject: [10023] Re: Johnson MatchBox Answer
Message-ID: <19970126.174936.4351.9.w77kxb@juno.com>

IMHO \$175.00 IALSteep

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Ken Lopez <kjlopez@earthlink.net>
Subject: [10053] Re: Johnson MatchBox Answer
Message-ID: <32EC2EB6.ADF@earthlink.net>

Concerning the Johnson Matchbox; I too have just acquired a nice
one, and am looking for a manual, or a copy of one. Can anyone out
there give me a hand with this?

Thanks, es 73,
Ken, N6TZV

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: w77kxb@juno.com (William Harris)
Subject: [10060] Re: Johnson MatchBox Answer
Message-ID: <19970127.055111.4855.0.w77kxb@juno.com>

Craig:

The small matchboxes are running between \$35 to \$50. Add \$20-\$25 for the swr bridge. That's the going rate at the swap meets here in arizona.
Good luck.

W7KXB..Bill
Mesa, Az.
27/1257z

output from a Drake L-4B (1KW+) into the 275W Matchbox and tuned an 80M Double Zepp on all bands with outstanding results. Is there any wonder why the KW Matchboxes are so much in demand? They probably can handle 5KW!

I see a lot of flimsey junk being sold in the \$150-200 price range which would not be nearly as efficient as the Johnson. If you were to pay \$75 for a beat-up Matchbox, I'd contend that you'd have a much better piece of equipment than anything on the market today at twice the price. (Components alone are worth that much) Any additional costs for the built-in SWR bridge and cosmetic appearance are at the buyer's discretion.

If you can find one in decent shape, I believe that you'll have something of lasting value that will efficiently meet your needs for many years to come. That may explain why these superb tuners are so hard to find at almost any price.

72/3, Paul, KB8N

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Vic Rosenthal <rakefet@rakefet.com>
Subject: [10116] Re: Johnson MatchBox Answer
Message-ID: <32ED3C15.18B6@rakefet.com>

PaulKB8N@aol.com wrote:

>

> They are also underrated
> in their advertised power ratings. Many years ago, a buddy of mine ran full
> output from a Drake L-4B (1KW+) into the 275W Matchbox and tuned an 80M
> Double Zepp on all bands with outstanding results. Is there any wonder why
> the KW Matchboxes are so much in demand? They probably can handle 5KW!

I've also seen the plastic strips that support the coils melted! The heating effect depends on the circulating current, which depends on the Q of the circuit when it's tuned (same goes for the voltage across the caps). So the 275 watts is for real, unless you want to live dangerously. Also, I agree that a price of \$75 to \$125 is about right. I'll buy all the \$25-\$35 ones you got!

Vic K2VCO

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "J. Skalski" <jskalski@acsu.buffalo.edu>
Subject: [10061] RE:keypads and cases/sold
Message-ID: <Pine.GS0.3.95.970127081726.5219B-100000@lictor.acsu.buffalo.edu>

These were a great deal. I am sorry I wasn't able to get them out to more but they are all sold. I have some other project cases that I will list later today or tomorrow...they are hammond plastic cases. I have about 30 of those.

73,

Jim N2GO
The Buffalo QRP CONNECTION
ARCI #9013 QRP-L #381
Life member ARRL
jskalski@acsu.Buffalo.EDU

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "Steve Hurst" <shurst@magiclink.com>
Subject: [10021] Re: Mailbox full?
Message-ID: <199701270050.TAA36001@nss2.CC.Lehigh.EDU>

Yes, I have rx'ed them as well. Just today as a matter of fact ! My post went thru though . 73
Steve
KA7NOC

> From: Mike Duke <gmduke@oscar.teclink.net>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Subject: Mailbox full?
> Date: Sunday, January 26, 1997 5:36 PM
>
> Is anyone else getting "mailbox full" messages from their provider when
> attempting to post to this list? I have gotten two within the past week.
>
> 73, de K5XU
>
>
>
> Mike Duke,
> Jackson, MS
>
>

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Richard Wilkerson <richqrp@pacbell.net>
Subject: [10036] Re: Mailbox full?
Message-ID: <32EC1D46.6BEB@pacbell.net>

Mike Duke wrote:

>
> Is anyone else getting "mailbox full" messages from their provider when
> attempting to post to this list? I have gotten two within the past week.
>
> 73, de K5XU
>
> Mike Duke,
> Jackson, MS

Yes I have been getting them also..

--

Rich Wilkerson WD6FDD, Santee, Ca.
NorCal, ARCI, Qrp-L, ECRA
scQRPions

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Bob Roach <KE4QOK@worldnet.att.net>
Subject: [10100] Re: Mailbox full?
Message-ID: <19970127210829.AAA9243@LOCALNAME>

At 12:36 AM 1/27/97 +0000, you wrote:

>Is anyone else getting "mailbox full" messages from their provider when
>attempting to post to this list? I have gotten two within the past week.

Yes. Very strange. Got the mailbox full message AND my message reflected
from the list. Don't know what to make of it.

(o o)

-----o00_()_00o-----

73 es TNX

KE4QOK Real radios glow in the dark.
Bob Power is no substitute for skill.
If it stayed up last winter, it was too small.
136 Hermitage Rd.
Newport News, Va. 23606 KE4QOK@worldnet.att.net
(757)930-0348

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Bob Patten <n4bp@shadow.net>
Subject: [10103] Re: Mailbox full?
Message-ID: <Pine.SOL.3.91.970127163039.24752A-100000@hyper>

On Mon, 27 Jan 1997, Bob Roach wrote:

> >Is anyone else getting "mailbox full" messages from their provider when
> >attempting to post to this list? I have gotten two within the past week.
>
> Yes. Very strange. Got the mailbox full message AND my message reflected
> from the list. Don't know what to make of it.
>
Probably just due to the incredible number of postings lately?

Bob Patten, N4BP
Plantation, FL
n4bp@shadow.net

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: "Claton Cadmus" <aplitech@Spacestar.Net>
Subject: [10117] Re: Mailbox full?
Message-ID: <199701272340.RAA04897@Spacestar.Net>

The mailbox full messages are coming from a list members mailbox, not the list itself. When the reflector sends the mail the "reply to" in the message header is the original sender, i.e. you. So if you post to the list and someone on the list's mailbox is full you will get the error message. Just delete them and ignore them.

Hope this Helps,

73 de KA0GKC Claton Cadmus
E-mail cla@spacestar.net
TCP/IP ka0gkc@ka0gkc.ampr.org
Ask me about the Minnesota QRP Society!
<http://www.spacestar.net/users/aplitech/mnqrp/>

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: jerryh@webzone.net (Jerry Henshaw)

Subject: [10073] RE: NC38S Still Chirpy At Stock Power????
Message-ID: <01BC0C3A.C9496C40@pm1.ppp30.webzone.net>

Hi Jim and Gang,

I solved the chirp and RIT problem with my 38S by removing diodes D301 and D302 and piggybacked a homebrew pc board on top of the holes. I used two 2N3094's and two 2.2K resistors in the base of each. The transistors are wired as a simple emitter follower switch with the emitters tied to ground. You must use the opposite signal to switch between xmit and rx --- the 3904's invert the logical sense.

Anyway, I can now turn on the RIT circuit with just a slight pull in transmit frequency. There is no chirp with the RIT turned off or on!!!!

My guess is the CMOS inverter/buffer used to generate the -R signal does not go close enough to ground potential to be a stable signal to switch the RIT circuit. Again, I measured 50 mv above ground at the output of the CMOS buffer. Now the RIT circuit sees a good solid ground and therefore no more drifting around.

There may be a much simpler mod --- Paul Harden suggested using a diode at the output of the CMOS gate.... I had already fabricated the pc board. Anyway, I hope this helps.

Now I'll put the 5 watt mod back in with Paul's suggestions and see if I can get it working without chirping.

Good Luck and let me know if this helps.

73's

Jerry Henshaw
KR5L / QRP
jerryh@webzone.net

ARCI 9165, QRP-L 847, NORCAL 1999
49er, ARK 20, Wilderness Sierra, (Soon 38 Special)

From: Jim Bennett[SMTP:jbenett@ebmud.com]
Sent: Monday, January 27, 1997 9:01 AM
Subject: Re: NC38S Still Chirpy At Stock Power????

Jerry - I am not experiencing very much of a chirp, but I find that my transmit frequency is nearly 2 KHz higher than my receive frequency. Does this sound similar to what you are seeing on your rig? I also have the RIT mod installed...

Tonight when I get home I'll try the RIT bypass like you mentioned and see if my problem goes away.

73, Jim.

Jim Bennett / W6JHB (jbennett@ebmud.com)
Supervising Systems Programmer
East Bay Municipal Utility District
Oakland, CA 94607
voice: 510.287.0224 / fax: 510.287.0373

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: wmcshan@REX.RE.uokhsc.edu (Mike McShan)
Subject: [10086] RE: NC38S Still Chirpy At Stock Power????
Message-ID: <v01540b01af12a0f70cb0@[157.142.56.167]>

>Hi Jim and Gang,

>

>I solved the chirp and RIT problem with my 38S by removing
>diodes D301 and D302 and piggybacked a homebrew pc
>board on top of the holes. I used two 2N3094's and two
>2.2K resistors in the base of each. The transistors are wired
>as a simple emitter follower switch with the emitters tied to
>ground. You must use the opposite signal to switch between
>xmit and rx --- the 3904's invert the logical sense.

>

(snip)

>

>Jerry Henshaw

>KR5L / QRP

>jerryh@webzone.net

>

>ARCI 9165, QRP-L 847, NORCAL 1999

>49er, ARK 20, Wilderness Sierra, (Soon 38 Special)

>

Good work, Jerry! How about posting an ascii version of the schematic for

us to look at?

72/73,
Mike N5JKY
Edmond, OK

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: timcook@erinet.com
Subject: [10074] Re: Need info on Alinco DX-70 w/6 m.
Message-ID: <32ECD350.5B30@erinet.com>

W. Dennis Zeares wrote:

>
> I would like to hear from owners/operators of the
> Alinco DX-70... tell me how it works... tell what
> you like and don't like.
>
> how is that CW filer and how is the QSK.
>
> Please email me direct to:zearwd@aud.alcate.com
>
> TNX, 72/73 Dennis K3ETS, Dallas, Tx. Home of K5FO
I tried one for about 30 mins, and got rid of it due to the relay noise
during QSK, it was LOUD... Just my opinion
Tim
NZ8J

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Ed Tanton <n4xy@avana.net>
Subject: [10027] Re: old oscilliscopes
Message-ID: <3.0.32.19970126201720.00964930@tiger.avana.net>

Well Dan... 100MHz would be nice... but basically a 'scope can 'see'
reasonably well to about 20% past its rated bandwidth. It can display an
ac/rf signal probably as much as twice its bandwidth, but the rated
bandwidth is referring mostly to the accuracy of the representation the
display depicts. The further past that bandwidth you go, the LESS
what-you-see is what-is-really-there.

A 50MHz scope would be ok looking at 30 MHz signals-probably including the
faster-risetime events such as keyclicks/etc. To see those leading edges in
their most accurate presentation, you probably WOULD need a 'scope capable

of near 100MHz operation AND delayed sweep to get at it.

To see and adjust the amplitude or phasing of a given signal you do not need nearly so much capability. But with the prices of 'scopes being what they are these days, you can buy a lot of capability for not all that much \$\$\$\$. THAT is one of the main reasons the boat anchor 530-540 series Tek scopes can be had so cheaply. Their modern superiors are just not that expensive-and can be had surplus (look at the MIL surplus Tek 7600-series... they're great bargains, cost vs. performance-wise.)

So would I TAKE one of those old scopes (if I didn't have one?) Yes... it'll make a nice learning tool. Would I BUY one... not for more than \$25 (not counting collector-quality... another ballgame entirely.) I hope that answers your question(s).

72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX
189 Pioneer Trail
Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140
NORCAL#1779 NCDXF SEDXC

Life Member: ARRL AMSAT IDRA INDEXA QCWA
URL: Coming Sooner or Later

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-l@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: JEVERHART@cayman.vf.mmc.com
Subject: [10084] RE: Suggestions for backpacking antennas
Message-ID: <970127124951.20249e07@cayman.vf.mmc.com>

Larry, you wrote:

>Hi everyone: I want to construct a QRP backpacking antenna(s) so I'm trying
>to think of the lightest, less bulky solutions. For single band work I'm
>thinking of a 300 ohm folded dipole using the lightweight Radio Shack 300
>ohm ribbon. For multiband work the St. Louis vertical seems easiest.
>However, I'm sure there is more experience out there than I have! I'd love
>some suggestions!

I have several ideas/suggestions:

1. Try a lightweight dipole. I wrote an article on a 1 lb dipole antenna in

the NEQRP newsletter, 72 last year. Called the PVC Gusher-II, it can be built for either single-band or multiband use. e-mail me at n2cx@voicenet.com for more details.

2. Try an end-fed halfwave wire. This guy can be nearly as efficient as a center fed dipole and much lighter to carry (no long, heavy feedline). A counterpoise suggested. A simple quarter wave wire layed out on the ground is sufficient.

You *do* need a tuner, but this can be very simple. Ther have been various tuners for half wave wires in various ham mags, the ARRL antenna book and on Frank G3YCC's web page. A *very* lightweight eminently potable tuner is described in the latest QRPp and QRP Quarterly - the Rainbow Bridge/Tuner. (blush - I wrote the article.) BTW, a kit for the Rainbow, less case is available from NJ-QRP.

3. A half-wave end-fed wire is also resonant on harmonics and can be easily tuned with the same sort of simple tuner.

72/73,

Joe E., N2CX

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Frank G3YCC <g3ycc@gqrpclub.demon.co.uk>
Subject: [10101] Re: Suggestions for backpacking antennas
Message-ID: <854398356.912793.0@gqrpclub.demon.co.uk>

For a single band 20m I would mention the 1/2 wave on my web page. No radials are needed, throw into a tree etc, tune for maximum on FS meter and you're away. Cost: nil, ease ++ what more do you want!!

For other bands, OK use more than one tuned cct in the box, plug in appropriate 1/2 wave and repeat above.

I personally do not think dipoles are the easiest to take if you do not know what supports you may have access to. Fine if you are staying somewhere you can sling up a dipole, but in many circumstances this will not be practical.

Another alternative is to make up an L-match with tapped coil, build in a simple resistive SWR bridge (again see my web page) and use any old length of wire you can get up and some sort of counterpoise. Have done that many times and worked fairly long distances. Yes the vertical is another attractive alternative. Thing to do is to try these things out and see what grabs you. But mainly have fun!

---72/3---Frank G3YCC G QRP 042

QTHR (Kirk Ella, East Yorkshire)

QRP Web sites: <http://www.gqrpclub.demon.co.uk>

<http://www.geocities.com/CapeCanaveral/5179>

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Ed Tanton <n4xy@avana.net>
Subject: [10035] Re: VHF SWR meter
Message-ID: <3.0.32.19970126215511.00974450@tiger.avana.net>

HI Bill... YOURS was the ONLY article I actually read completely! Enjoyed it very much. What do you think it would take to lower the sensitivity to ~ 0.1W as low as 3.5MHz??? Very good thinking on the 'embedded' wires!
72/73

Ed Tanton N4XY EMAIL: n4xy@avana.net TEL: (770)579-3933 V/MBX/FAX
189 Pioneer Trail
Marietta, GA 30068-3466

QRP-ARCI#7663 G-QRP#6779 OK-QRP#172 QRP-L#758 AdvRC#140
NORCAL#1779 NCDXF SEDXC

Life Member: ARRL AMSAT IDRA INDEXA QCWA
URL: Coming Sooner or Later

"Think you can, think you can't: either way you're right!" Henry Ford

From owner-qrp-1@Lehigh.EDU Mon Jan 27 18:01:35 1997
From: Bill VanRemmen <billy@frontiernet.net>
Subject: [10041] Re: VHF SWR meter
Message-ID: <199701270426.XAA21818@node1.frontiernet.net>

At 09:55 PM 1/26/97 -0500, you wrote:
>HI Bill... YOURS was the ONLY article I actually read completely! Enjoyed
>it very much. What do you think it would take to lower the sensitivity to ~
>0.1W as low as 3.5MHz??? Very good thinking on the 'embedded' wires!
>72/73

Well, you'd probably need a different directional coupler. It would have to have VERY low forward-voltage diodes or perhaps a biased diode arrangement. It would probably have to use a transformer with one turn or so of coax and lots of turns of magnet wire on a torroidal core.

Unfortunately, the stripline coupler's sensitivity falls off as the frequency drops, so you would probably need 100W or so to be able to use it at 3.5 MHz.

Definitely not QRP.

I'll have to think about this one a bit.

-Bill VanRemmen, KA2WFJ
billy@frontiernet.net
<http://www.frontiernet.net/~billy/>

My opinions. No one in their right mind would claim otherwise.

=====
"Experience should teach us to be most on our guard to protect liberty
when the government's purposes are beneficent . . . the greatest
dangers to liberty lurk in insidious encroachment by men of zeal, well
meaning but without understanding."

Justice Louis Brandeis
Olmstead vs. United States,
United States Supreme Court, 1928
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